

Service Manual

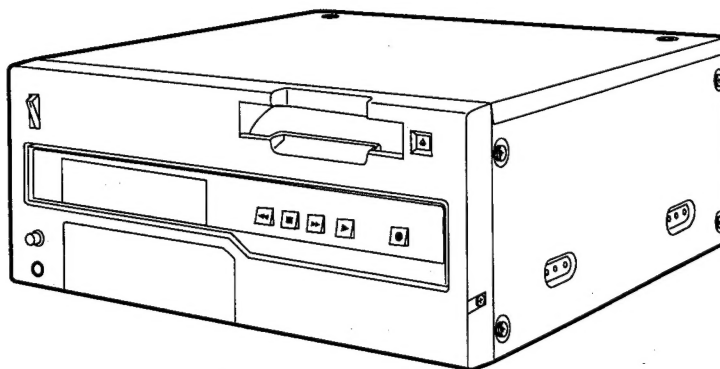
Vol. 2

- Sec. 6** *Block Diagrams*
- Sec. 7** *Schematic Diagrams*
- Sec. 8** *Circuit Board Diagrams*



Digital Video Cassette Player
AJ-D440P/

Digital Video Cassette Recorder
AJ-D450P/



Please refer to the Service Manual Volume 1 (order No. VSD9907M904A) for Operating Instructions, Service Information, Maintenance & Mechanical Adjustments, Electrical Adjustments and Exploded Views & Replacement Parts List.

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⚠ WARNING

This service information is designed for experienced repair technicians only and is not designed for use by the general public. It does not contain warnings or cautions to advise non-technical individuals of potential dangers in attempting to service a product. Products powered by electricity should be serviced or repaired only by experienced professional technicians. Any attempt to service or repair the product or products deal with in this service manual by anyone else could result in serious injury or death.

INTRODUCTION

This service manual contains technical information which will allow service personnel to understand and service the DVCPRO Studio VTR AJ-D440P/E and AJ-D450P/E.

If the part or circuit is changed or modified, this information will be followed by supplementary service manual to be filed with original manual.

Vol. 2

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Specifications

AJ-D440P AJ-D450P

GENERAL

Power supply:	AC 120 V, 50 – 60 Hz
Power consumption:	AJ-D440: 120 W AJ-D450: 150 W

Operating ambient temperature:	41°F to 104°F (5°C to 40°C)
Operating ambient humidity:	10% to 90% (no condensation)
Weight:	AJ-D440: 33 lbs (15 kg) AJ-D450: 34.98 lbs (15.9 kg)
Dimensions (W × H × D):	16-3/4 × 6-15/16 × 16-3/8 inches (424 × 175 × 415 mm)
Recording format:	DVCPRO format
Recording tracks:	Digital video Recorded in sub-code area Time code; 2 channels Digital audio; 1 track Cue Track; 1 track Control (CTL);
Tape speed:	33.820 mm/sec
Recording time:	184 minutes (with AJ-5P92LP) 66 minutes (with AJ-P66MP)
Tape:	1/4-inch thin magnetic layer metal tape
FF/REW time:	Less than 3 min (with AJ-5P92LP) Less than 2 min (with AJ-P66MP)
Editing accuracy*:	±0 frame (using time code)
Tape timer accuracy:	±1 frame (using continuous CTL signal)
Servo lock time:	Less than 0.5 sec. (color framing/ standby ON)

VIDEO

(Digital video)

Sampling frequencies:	Y; 13.5 MHz/Pb, Pr; 3.375 MHz
Quantizing:	8 bits
Error correction:	Reed-Solomon product code

(Digital IN/analog component OUT)

Video bandwidth:	Y; 30 Hz to 5.5 MHz (±1.0 dB) Pb, Pr; 30 Hz to 1.0 MHz (±1.0 dB)
S/N ratio:	Better than 56 dB
K factor:	Less than 2%

(Analog component IN/component OUT)

Video bandwidth:	Y; 30 Hz to 5.5 MHz (–1.5 dB to +1.0 dB) Pb, Pr; 30 Hz to 1.0 MHz (–2.0 dB to +1.0 dB)
S/N ratio:	Better than 55 dB
K factor:	Less than 2%

(Analog composite IN/composite OUT)

Video bandwidth:	Y; 30 Hz to 4.5 MHz (–1.5 dB to +1.0 dB)
DG:	Less than 4%
DP:	Less than 3%
Y/C delay:	Better than 20 ns
K factor:	Less than 3%
S/N ratio:	Better than 48 dB

(Video input connector)*

Analog component input*:	BNC×3 (Y, Pb, Pr) Y; 1.0 Vp-p, 75Ω Pb, Pr; 0.486/0.7 Vp-p switchable, 75Ω (75% color bar, 7.5% setup)
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Analog composite input*:	BNC×2, loop-through, 75Ω on/off
S VIDEO input*:	S terminal (4-pin)×1 Y; 1.0 Vp-p, 75Ω C; 0.286 Vp-p (burst), 75Ω

Reference input:

Serial digital component input (option)*:	Analog composite BNC×2, loop-through, 75Ω on/off Complies with SMPTE259M-C standard, BNC×2, active through
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(Video output connector)

Analog component output:	BNC×3 (Y, Pb, Pr) Y; 1.0 Vp-p, 75Ω Pb, Pr; 0.486/0.7 Vp-p switchable, 75Ω (75% color bar, 7.5% setup)
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Analog composite output:	BNC×3 Video1/video2/video3 (superimpose on/off)
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S VIDEO output:	S terminal (4-pin)×1 Y; 1.0 Vp-p, 75Ω C; 0.286 Vp-p (burst), 75Ω
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Serial digital component output (option):	Complies with SMPTE259M-C standard, BNC×3
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(Video signals adjustment)

Video output gain:	±3 dB
Video output chroma gain:	±3 dB
Video output hue:	±30°
Video output setup:	±15 IRE
Video output sync phase:	±2 μs
Video output SC phase:	±180°

Control from ENCODER
REMOTE connector

AUDIO

(Digital audio)

Sampling frequencies:	48 kHz
Quantizing:	16 bits
Frequency response:	20 Hz to 20 kHz (±1.0 dB)
Dynamic range:	Better than 85 dB (1 kHz, emphasis OFF, "A" weighted)

Distortion:	Less than 0.1% (1 kHz, emphasis OFF, standard level)
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Crosstalk:	Less than –80 dB (1 kHz, between 2 channels)
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Wow & flutter:	Below measurable limits
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Headroom:	20 dB
De-emphasis:	T1=50 μs/T2=15 μs (on/off automatic)

(Cue track)

Frequency response:	300 Hz to 6 kHz ±3 dB
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(Audio input connector)*

Analog input (CH1/CH2):	XLR×2, 600Ω/high impedance selectable, +4/0/–20/–60 dBu
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Digital input (CH1/CH2) (option):	BNC×1, AES/EBU format
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Serial digital input (option):	Complies with SMPTE259M-C, 272M standard (BNC)
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(Audio output connector)

Analog output (CH1/CH2):	XLR×2, low impedance, +4/0/–20 dBu
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Digital output (CH1/CH2) (option):	BNC×1, AES/EBU format
Serial digital output (option):	Complies with SMPTE259M-C, 272M standard (BNC)

Monitor output:	Phono×1, 600 Ω, –8 dBV
Headphones:	Variable level, 1/4" phone, 8Ω

Other input/output connector

Time code input*:	BNC×1, 0.5 to 8 Vp-p
Time code output:	BNC×1, 2.0 Vp-p
RS-422A input/output:	D-sub 9-pin, RS-422A interface
RS-232C:	D-sub 25-pin, RS-232C interface
Encoder remote:	D-sub 15-pin

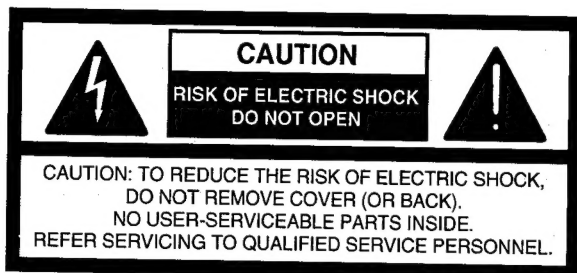
Weight and dimensions when shown are approximately.
Specifications are subject to change without notice.

* Items marked with an asterisk (*) indicate AJ-D450 only.

IMPORTANT

"Unauthorized recording of copyrighted television programs, video tapes and other materials may infringe the right of copyright owners and be contrary to copyright laws."

AJ-D440_P AJ-D450_P



The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.



The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

CAUTION:

To reduce the risk of fire or shock hazard and annoying interference, use the recommended accessories only.

WARNING:

To reduce the risk of fire or shock hazard, do not expose this equipment to rain or moisture.


CAUTION:

TO REDUCE THE RISK OF FIRE OR SHOCK HAZARD, REFER MOUNTING OF THE OPTIONAL INTERFACE BOARD TO AUTHORIZED SERVICE PERSONNEL.

FCC Note:

This device complies with Part 15 of the FCC Rules. To assure continued compliance follow the attached installation instructions and do not make any unauthorized modifications.

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

 is the safety information.

- Do not insert fingers or any objects into the video cassette holder.
- Avoid operating or leaving the unit near strong magnetic fields. Be especially careful of large audio speakers.
- Avoid operating or storing the unit in an excessively hot, cold, or damp environment as this may result in damage both to the recorder and to the tape.
- Do not spray any cleaner or wax directly on the unit.
- If the unit is not going to be used for a length of time, protect it from dirt and dust.
- Do not leave a cassette in the recorder when not in use.
- Do not block the ventilation slots of the unit.

- Use this unit horizontally and do not place anything on the top panel.
- Cassette tape can be used only for one-side, one direction recording. Two-way or two-track recordings cannot be made.
- Cassette tape can be used for either Color or Black & White recording.
- Do not attempt to disassemble the recorder. There are no user serviceable parts inside.
- If any liquid spills inside the recorder, have the recorder examined for possible damage.
- Refer any needed servicing to authorized service personnel.

Specifications

GENERAL

Power supply:	AC 220 V – 240 V, 50 – 60 Hz
Power consumption:	AJ-D440; 130 W AJ-D450; 150 W

Operating ambient temperature:	5°C to 40°C
Operating ambient humidity:	10% to 90% (no condensation)
Weight:	AJ-D440; 14.6 kg AJ-D450; 15.5 kg
Dimensions (W × H × D):	424 × 175 × 415 mm
Recording format:	DVCPRO format
Recording tracks:	Digital video Time code; Recorded in sub-code area Digital audio; 2 channels Cue Signal; 1 track Control (CTL); 1 track
Tape speed:	33.854 mm/sec.
Recording time:	184 minutes (with AJ-5P92LP) 66 minutes (with AJ-P66MP)
Tape:	1/4-inch thin magnetic layer metal tape
FF/REW time:	Less than 3 min (with AJ-5P92LP) Less than 2 min (with AJ-P66MP)
Editing accuracy*:	±0 frame (using time code)
Tape timer accuracy:	±1 frame (using continuous CTL signal)
Servo lock time:	Less than 0.5 sec. (colour framing/standby ON)

VIDEO

(Digital video)

Sampling frequencies:	Y; 13.5 MHz/Pb, Pr; 3.375 MHz
Quantizing:	8 bits
Error correction:	Reed-Solomon product code

(Digital IN/analogue component OUT)

Video bandwidth:	Y; 25 Hz to 5.5 MHz (±1.0 dB) Pb, Pr; 25 Hz to 1.3 MHz (±1.0 dB)
S/N ratio:	Better than 56 dB
K factor:	Less than 2%

(Analogue component IN/component OUT)

Video bandwidth:	Y; 25 Hz to 5.5 MHz (–1.5 dB to +1.0 dB) Pb, Pr; 25 Hz to 1.3 MHz (–2.0 dB to +1.0 dB)
S/N ratio:	Better than 55 dB
K factor:	Less than 2%

(Analogue composite IN/composite OUT)

Video bandwidth:	Y; 25 Hz to 5.5 MHz (–1.5 dB to +1.0 dB)
DG:	Less than 4%
DP:	Less than 3%
Y/C delay:	Better than 20 ns
K factor:	Less than 3%
S/N ratio:	Better than 48 dB

(Video input connector)*

Analogue component input*:	BNC×3 (Y, Pb, Pr) Y; 1.0 Vp-p, 75Ω Pb, Pr; 0.7 Vp-p, 75Ω (100% colour bar)
Analogue composite input*:	BNC×2, loop-through, 75Ω on/off
S VIDEO input*:	S terminal (4-pin) × 1 Y; 1.0 Vp-p, 75Ω C; 0.3 Vp-p (burst), 75Ω
Reference input:	Analogue composite BNC × 2, loop-through, 75Ω on/off

Serial digital component input (option)*:	Complies with EBU Tech. 3267-E standard, BNC × 2, active through
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(Video output connector)

Analogue component output:	BNC × 3 (Y, Pb, Pr) Y; 1.0 Vp-p, 75Ω Pb, Pr; 0.7 Vp-p, 75Ω (100% colour bar)
Analogue composite output:	BNC × 3 Video1/video2/video3 (superimpose on/off)
S VIDEO output:	S terminal (4-pin) × 1 Y; 1.0 Vp-p, 75Ω C; 0.3 Vp-p (burst), 75Ω
Serial digital component output (option):	Complies with EBU Tech. 3267-E standard, BNC × 3

(Video signals adjustment)

Video output gain:	±3 dB
Video output chroma gain:	±3 dB
Video output chroma phase:	±30°
Video output black level:	±100 mV
Video output sync phase:	±2 μsec
Video output SC phase:	±180°

Control from ENCODER
REMOTE connector

AUDIO

(Digital audio)

Sampling frequencies:	48 kHz
Quantizing:	16 bits
Frequency response:	20 Hz to 20 kHz (±1.0 dB)
Dynamic range:	Better than 85 dB (1 kHz, emphasis OFF, "A" weighted)

Distortion:	Less than 0.1% (1 kHz, emphasis OFF, standard level)
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Crosstalk:	Less than –80 dB (1 kHz, between 2 channels)
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Wow & flutter:	Below measurable limits
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Headroom:	18 dB
De-emphasis:	T1 = 50 μsec/T2 = 15 μsec (on/off automatic)

(Cue track)

Frequency response:	300 Hz to 6 kHz ±3 dB
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(Audio input connector)*

Analogue input (CH1/CH2):	XLR × 2, 600Ω/high impedance selectable, +4/0/–20/–60 dBu
Digital input (CH1/CH2) (option):	BNC × 1, AES/EBU format
Serial digital input (option):	Complies with EBU Tech. 3267-E standard (BNC)

(Audio output connector)

Analogue output (CH1/CH2):	XLR × 2, low impedance, +4/0/–20 dBu
Digital output (CH1/CH2) (option):	BNC × 1, AES/EBU format
Serial digital output (option):	Complies with EBU Tech. 3267-E standard (BNC)
Monitor output:	Phono×1, 600Ω, –8 dBV
Headphones:	Variable level, 1/4" phone, 8Ω

Other input/output connector

Time code input*:	BNC × 1, 0.5 to 8 Vp-p
Time code output:	BNC × 1, 2.0 Vp-p
RS-422A input/output:	D-sub 9-pin, RS-422A interface
RS-232C:	D-sub 25-pin, RS-232C interface
Encoder remote:	D-sub 15-pin

* Items marked with an asterisk (*) indicate AJ-D450 only.

Weight and dimensions shown are approximate.
Specifications are subject to change without notice.

Caution for AC Mains Lead

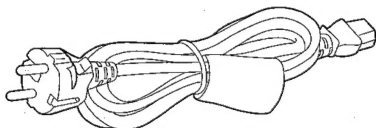
FOR YOUR SAFETY PLEASE READ THE FOLLOWING TEXT CAREFULLY.

This product is equipped with 2 types of AC mains cable. One is for continental Europe, etc. and the other one is only for U.K.

Appropriate mains cable must be used in each local area, since the other type of mains cable is not suitable.

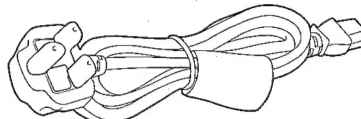
FOR CONTINENTAL EUROPE, ETC.

Not to be used in the U.K.



FOR U.K. ONLY

If the plug supplied is not suitable for your socket outlet, it should be cut off and appropriate one fitted.




FOR U.K. ONLY

This appliance is supplied with a moulded three pin mains plug for your safety and convenience.

A 13 amp fuse is fitted in this plug.

Should the fuse need to be replaced please ensure that the replacement fuse has a rating of 13 amps and that it is approved by ASTA or BSI to BS1362.

Check for the ASTA mark  or the BSI mark  on the body of the fuse.

If the plug contains a removable fuse cover you must ensure that it is refitted when the fuse is replaced.

If you lose the fuse cover the plug must not be used until a replacement cover is obtained.

A replacement fuse cover can be purchased from your local Panasonic Dealer.

IF THE FITTED MOULDED PLUG IS UNSUITABLE FOR THE SOCKET OUTLET IN YOUR HOME THEN THE FUSE SHOULD BE REMOVED AND THE PLUG CUT OFF AND DISPOSED OF SAFELY. THERE IS A DANGER OF SEVERE ELECTRICAL SHOCK IF THE CUT OFF PLUG IS INSERTED INTO ANY 13 AMP SOCKET.

If a new plug is to be fitted please observe the wiring code as shown below.


If in any doubt please consult a qualified electrician.

WARNING: THIS APPLIANCE MUST BE EARTHED.

IMPORTANT: The wires in this mains lead are coloured in accordance with the following code:

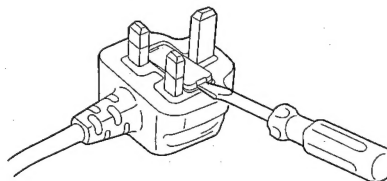
Green-and-Yellow:	Earth
Blue:	Neutral
Brown:	Live

As the colours of the wires in the mains lead of this appliance may not correspond with the coloured markings identifying the terminals in your plug, proceed as follows:

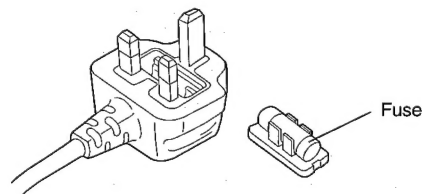
- The wire which is coloured GREEN-AND-YELLOW must be connected to the terminal in the plug which is marked with the letter E or by the Earth symbol  or coloured GREEN or GREEN-AND-YELLOW.
- The wire which is coloured BLUE must be connected to the terminal in the plug which is marked with the letter N or coloured BLACK.
- The wire which is coloured BROWN must be connected to the terminal in the plug which is marked with the letter L or coloured RED.

How to replace the fuse

1. Open the fuse compartment with a screwdriver.



2. Replace the fuse.



IMPORTANT

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■ THIS APPARATUS MUST BE EARTHED

To ensure safe operation the three-pin plug must be inserted only into a standard three-pin power point which is effectively earthed through the normal house-hold wiring.

Extension cords used with the equipment must be three-core and be correctly wired to provide connection to earth. Wrongly wired extension cords are a major cause of fatalities.

The fact that the equipment operates satisfactorily does not imply that the power point is earthed and that the installation is completely safe. For your safety, if in any doubt about the effective earthing of the power point, consult a qualified electrician.

■ DO NOT REMOVE PANEL COVER BY UNSCREWING

To reduce the risk of electric shock, do not remove cover. No user serviceable parts inside. And do not insert fingers or any other objects into the video cassette holder.

WARNING:

TO REDUCE THE RISK OF FIRE OR SHOCK HAZARD, DO NOT EXPOSE THIS EQUIPMENT TO RAIN OR MOISTURE.

CAUTION:

TO REDUCE THE RISK OF FIRE OR SHOCK HAZARD, AND ANNOYING INTERFERENCE, USE THE RECOMMENDED ACCESSOIRES ONLY.

CAUTION:

TO REDUCE THE RISK OF FIRE OR SHOCK HAZARD, REFER MOUNTING OF THE OPTIONAL BOARD TO QUALIFIED SERVICE PERSONNEL.

Operating precaution

Operation near any appliance which generates strong magnetic fields may give rise to noise in the video and audio signals. If this should be the case, deal with the situation by, for instance, moving the source of the magnetic fields away from the unit before operation.

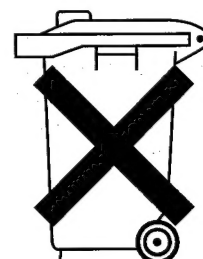
CAUTION:

Do not install or place this unit in a bookcase, built-in cabinet or another confined space in order to maintain adequate ventilation. Ensure that curtains and any other materials do not obstruct the ventilation to prevent risk of electric shock or fire hazard due to overheating.

 is the safety information.

Attention/Attentie

- This apparatus contains a lithium battery for memory back-up.
- For the removal of the battery at the moment of the disposal at the end of the service life please consult your dealer.
- Do not throw away the battery. Instead, hand it in as hazardous waste.
- Dit apparaat bevat een lithiumbatterij voor memory back-up.
- Raadpleeg uw leverancier over de verwijdering van de batterij op het moment dat u het apparaat bij einde levensduur afdankt.
- Gooi de batterij niet weg, maar lever hem in als KCA.



SAFETY PRECAUTIONS

GENERAL GUIDELINES

1. When servicing, observe the original lead dress. If a short circuit is found, replace all parts which have been overheated or damaged by the short circuit.
2. After servicing, see to it that all the protective devices such as insulation barriers, insulation papers shields are properly installed.
3. After servicing, make the following leakage current checks to prevent the customer from being exposed to shock hazards.

LEAKAGE CURRENT COLD CHECK

1. Unplug the AC cord and connect a jumper between the two prongs on the plug.
2. Measure the resistance value, with an ohmmeter, between the jumpered AC plug and each exposed metallic cabinet part on the equipment such as screwheads, connectors, control shafts, etc. When the exposed metallic part has a return path to the chassis, the reading should be between $1\text{M}\Omega$ and $5.2\text{M}\Omega$.

When the exposed metal does not have a return path to the chassis, the reading must be ∞ .

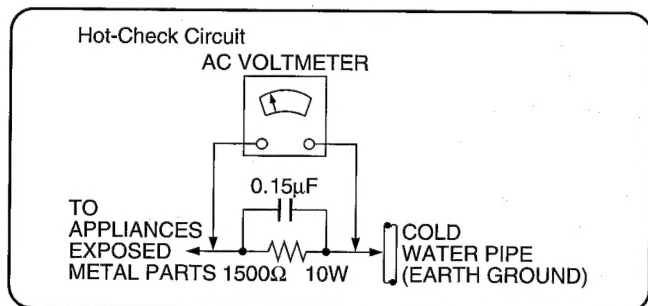


Figure 1

LEAKAGE CURRENT HOT CHECK (See Figure 1.)

1. Plug the AC cord directly into the AC outlet.
Do not use an isolation transformer for this check.
2. Connect a $1.5\text{k}\Omega$, 10 W resistor, in parallel with a $0.15\mu\text{F}$ capacitor, between each exposed metallic part on the set and a good earth ground such as a water pipe, as shown in Figure 1.
3. Use an AC voltmeter, with 1000 ohms/volt or more sensitivity, to measure the potential across the resistor.
4. Check each exposed metallic part, and measure the voltage at each point.
5. Reverse the AC plug in the AC outlet and repeat each of the above measurements.
6. The potential at any point should not exceed 0.75 volts RMS. A leakage current tester (Simpson Model 229 equivalent) may be used to make the hot checks, leakage current must not exceed $1/2$ milliamp. In case a measurement is outside of the limits specified, there is a possibility of a shock hazard, and the equipment should be repaired and rechecked before it is returned to the customer.

ELECTROSTATICALLY SENSITIVE (ES) DEVICES

Some semiconductor (solid state) devices can be damaged easily by static electricity. Such components commonly are called Electrostatically Sensitive (ES) Devices. Examples of typical ES devices are integrated circuits and some field-effect transistors and semiconductor "chip" components. The following techniques should be used to help reduce the incidence of component damage caused by static electricity.

1. Immediately before handling any semiconductor component or semiconductor-equipped assembly, drain off any electrostatic charge on your body by touching a known earth ground.
Alternatively, obtain and wear a commercially available discharging wrist strap device, which should be removed for potential shock reasons prior to applying power to the unit under test.
2. After removing an electrical assembly equipped with ES devices, place the assembly on a conductive surface such as aluminum foil, to prevent electrostatic charge buildup or exposure of the assembly.
3. Use only a grounded-tip soldering iron to solder or unsolder ES devices.
4. Use only an anti-static solder removal device classified as "anti-static" can generate electrical charges sufficient to damage ES devices.
5. Do not use freon-propelled chemicals. These can generate electrical charges sufficient to damage ES devices.
6. Do not remove a replacement ES device from its protective package until immediately before you are ready to install it. (most replacement ES devices are packaged with leads electrically shorted together by conductive foam, aluminum foil or comparable conductive material).
7. Immediately before removing the protective material from the leads of a replacement ES device, touch the protective material to the chassis or circuit assembly into which the device will be installed.
CAUTION: Be sure no power is applied to the chassis or circuit, and observe all other safety precautions.
8. Minimize bodily motions when handling unpackaged replacement ES devices. (Otherwise harmless motion such as the brushing together of your clothes fabric or the lifting of your foot from a carpeted floor can generate static electricity sufficient to damage an ES device).

X-RADIATION

WARNING

1. The potential source of X-Radiation in EVF sets is the High Voltage section and the picture tube.
 2. When using a picture tube test jig for service, ensure that jig is capable of handling 10kV without causing X-Radiation.
- NOTE:** It is important to use an accurate periodically calibrated high voltage meter.
3. Measure the High Voltage. The meter (electric type) reading should indicate 2.5kV , $\pm 0.15\text{kV}$. If the meter indication is out of tolerance, immediate service and correction is required to prevent the possibility of premature component failure. To prevent an X-Radiation possibility, it is essential to use the specified picture tube.

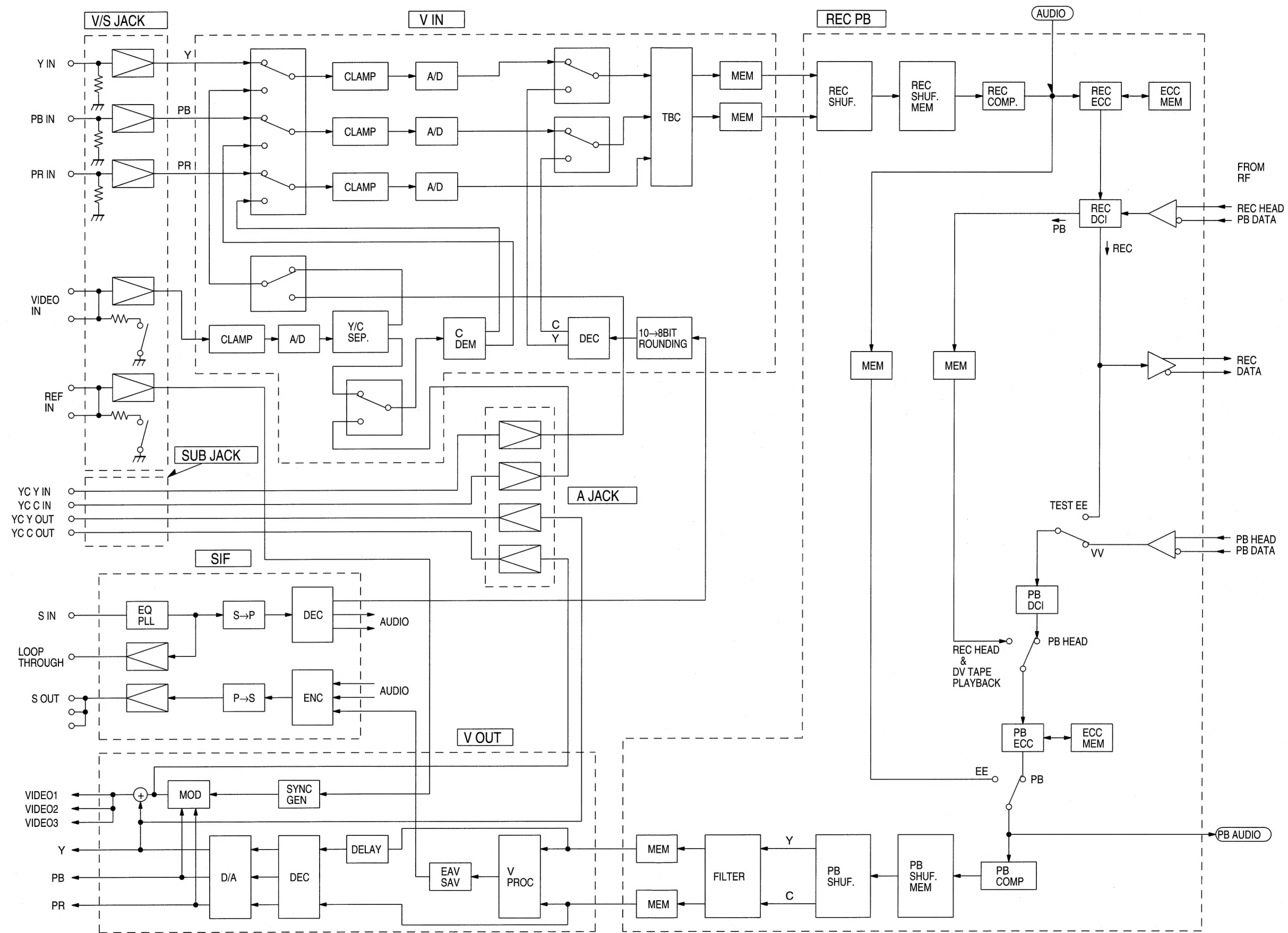
SECTION 6

BLOCK DIAGRAM

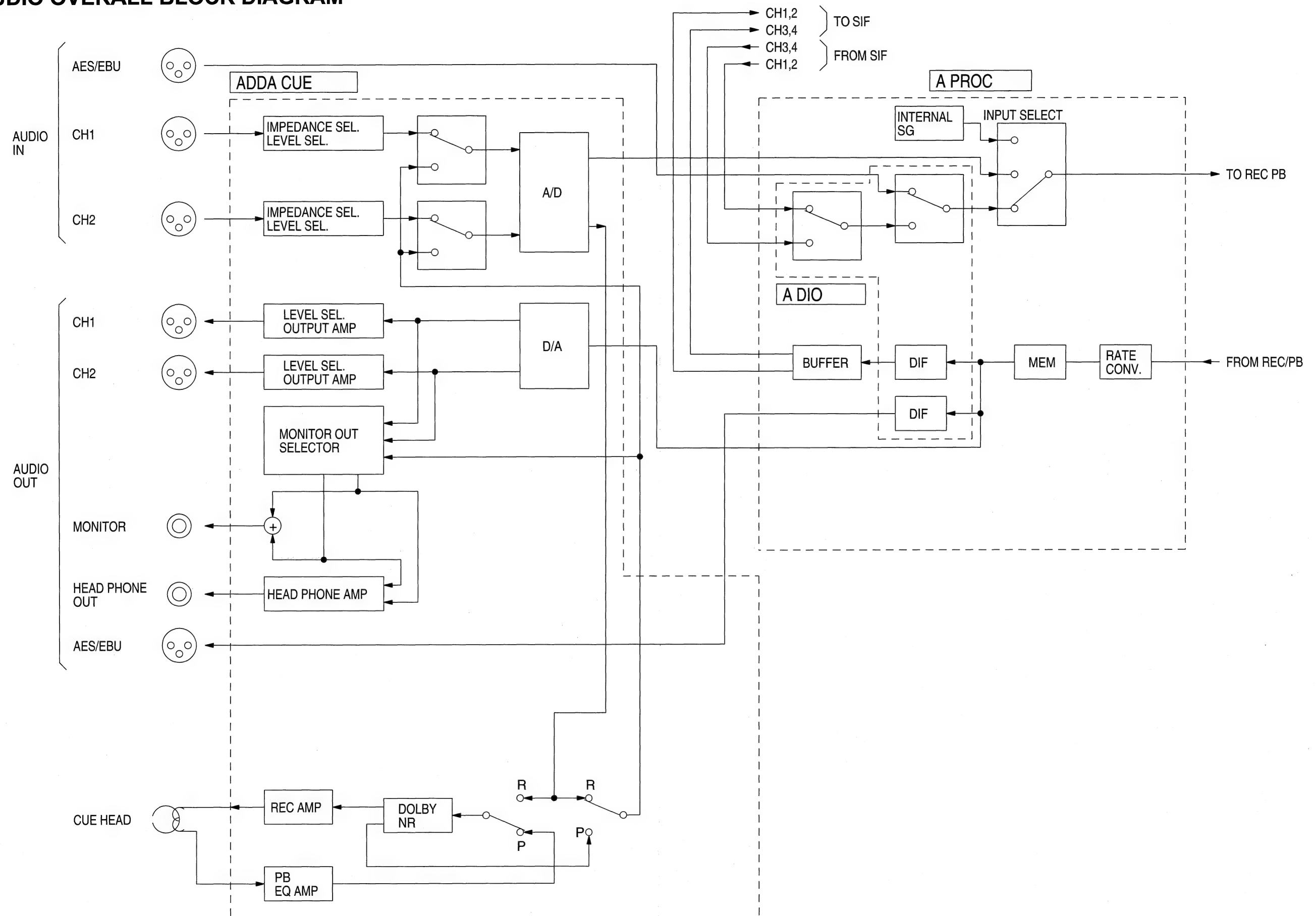
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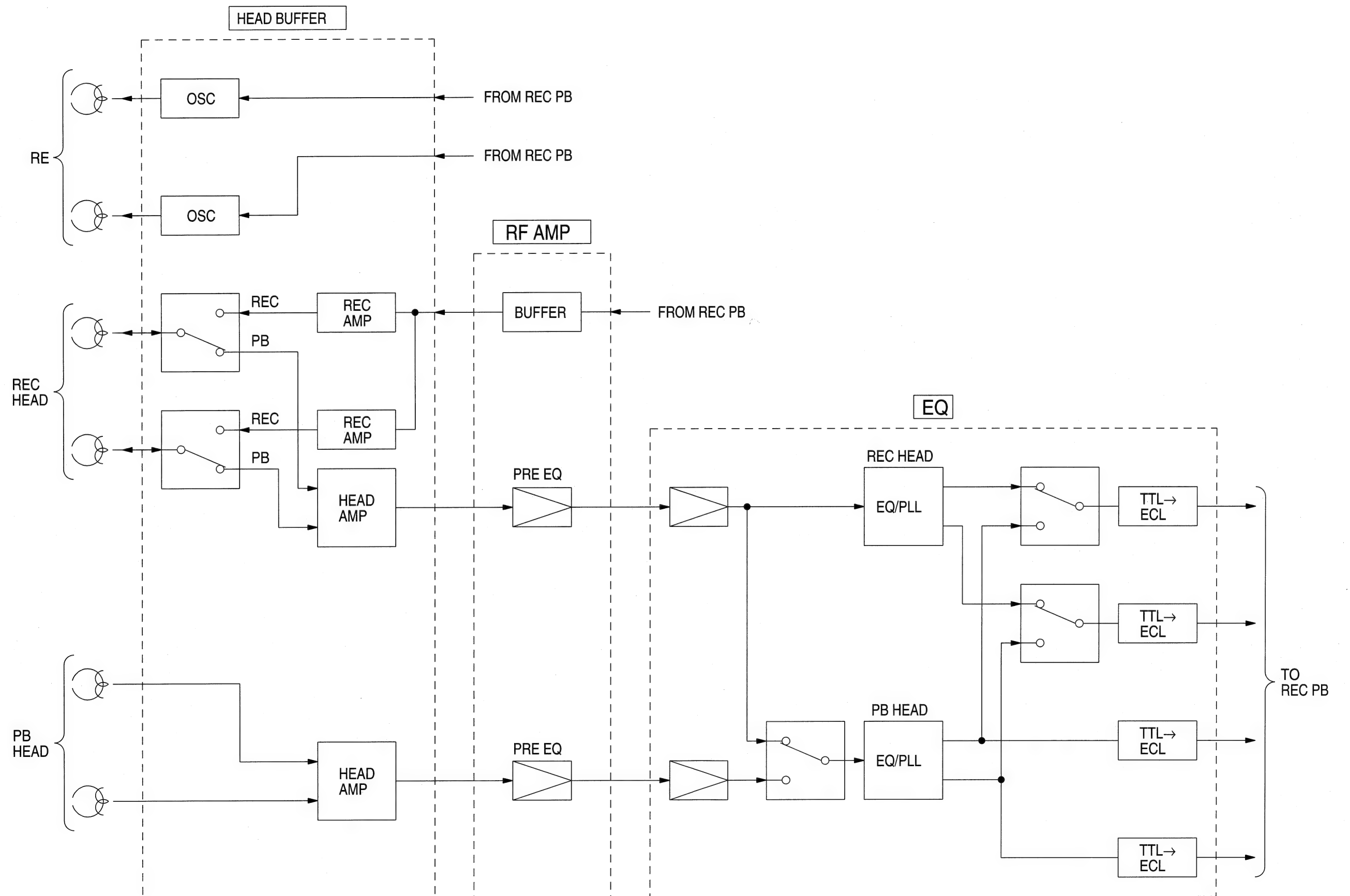
VIDEO OVERALL BLOCK DIAGRAM



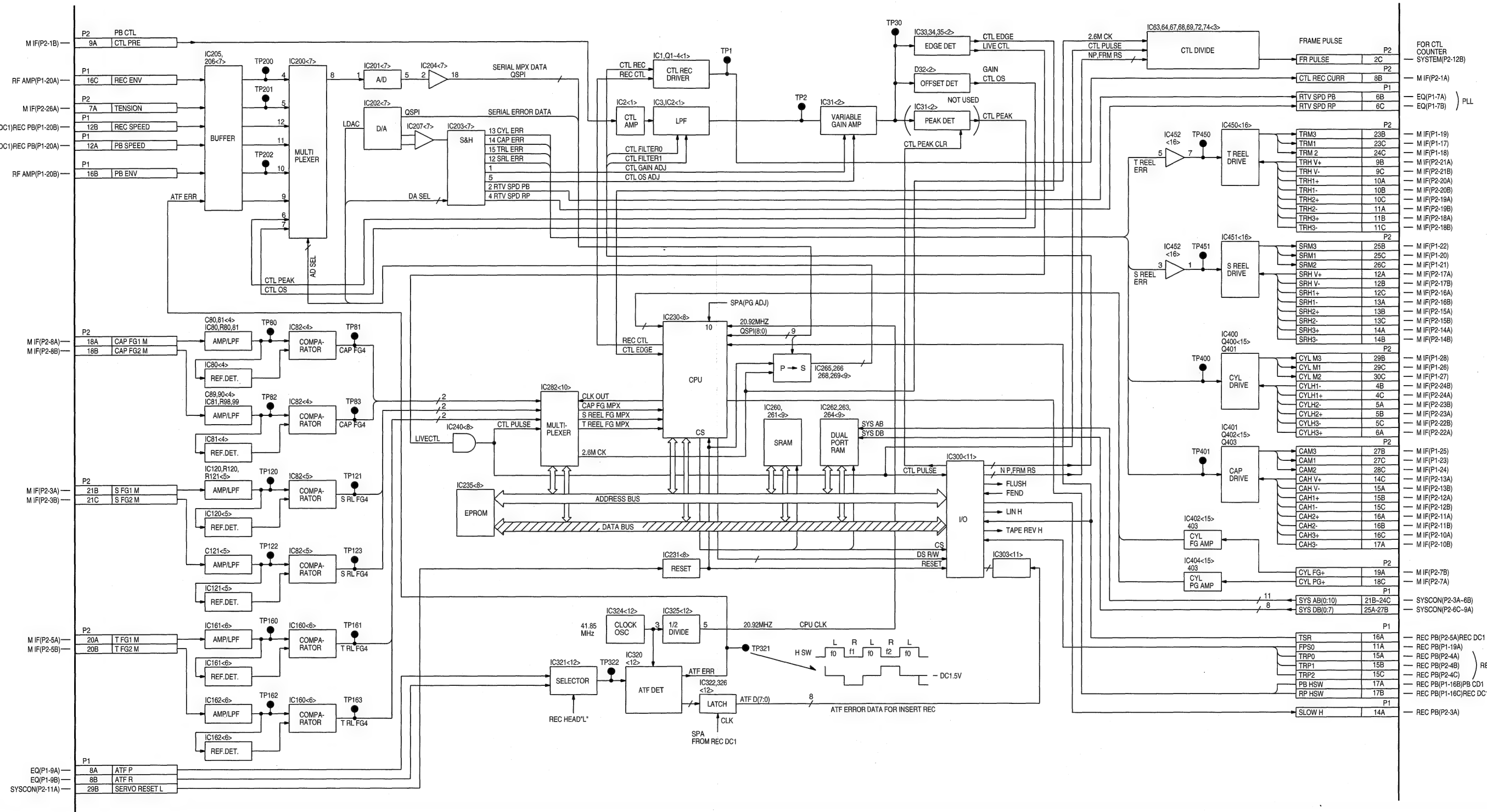
AUDIO OVERALL BLOCK DIAGRAM



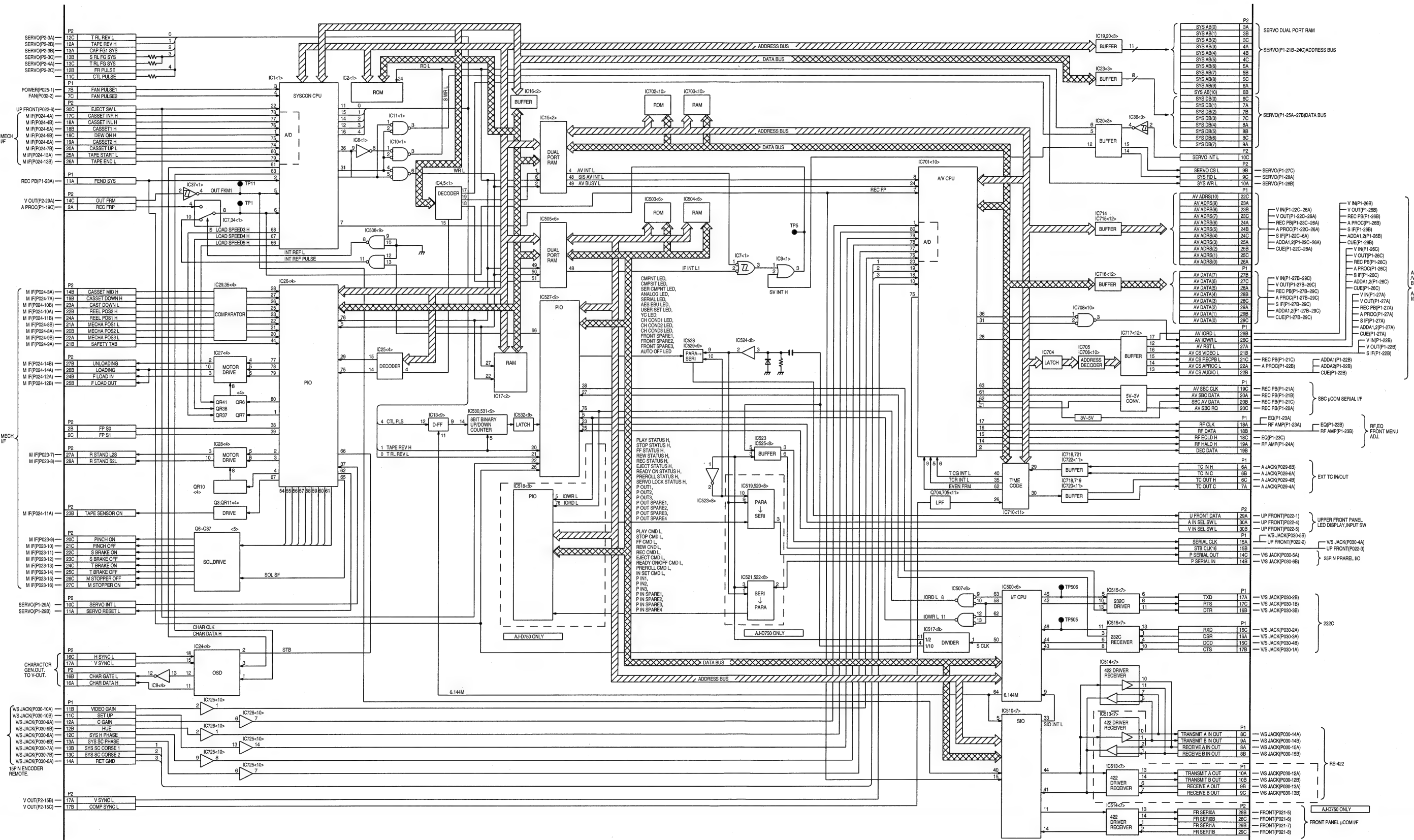
RF OVERALL BLOCK DIAGRAM



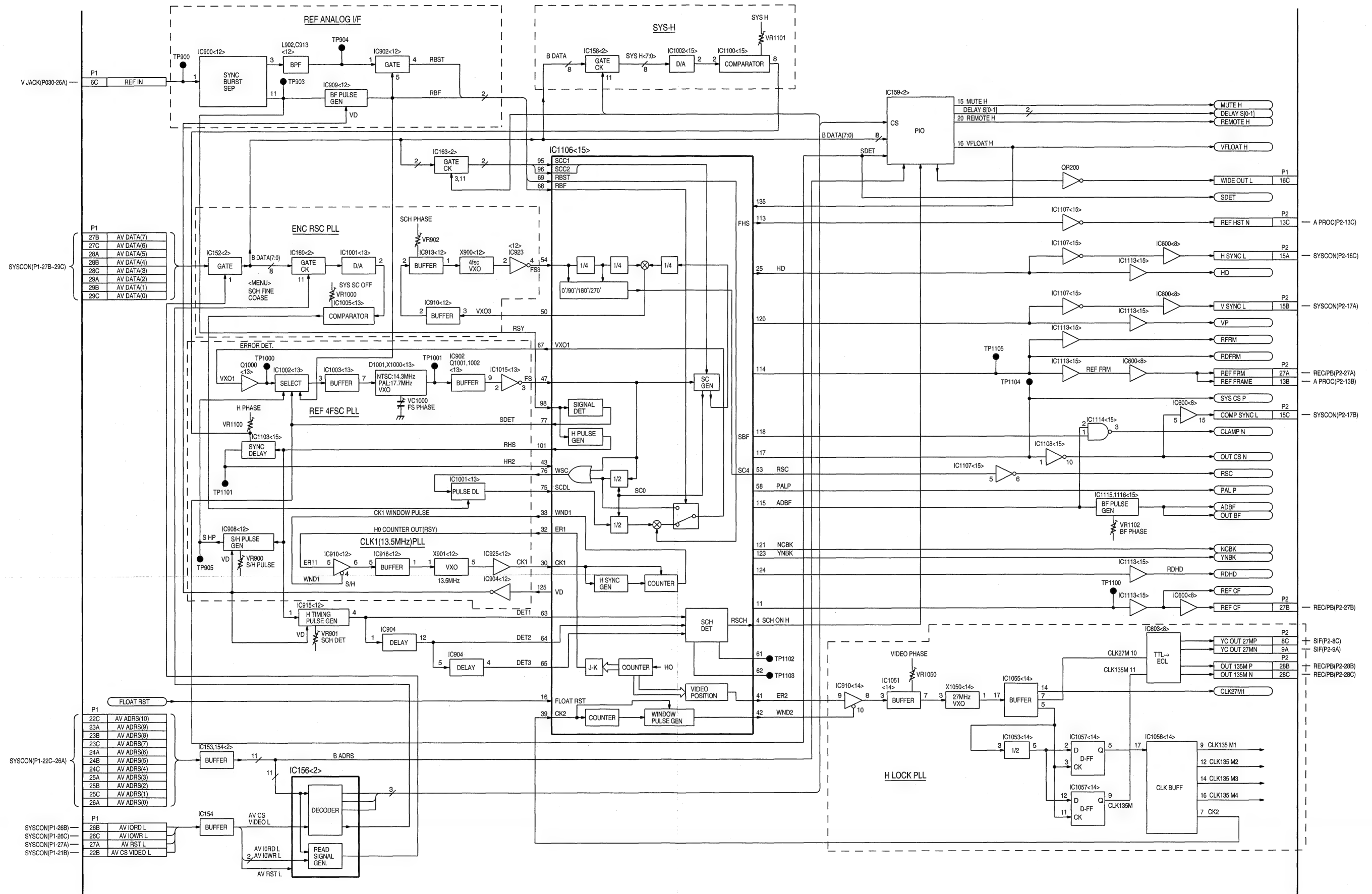
F1: SERVO BLOCK DIAGRAM



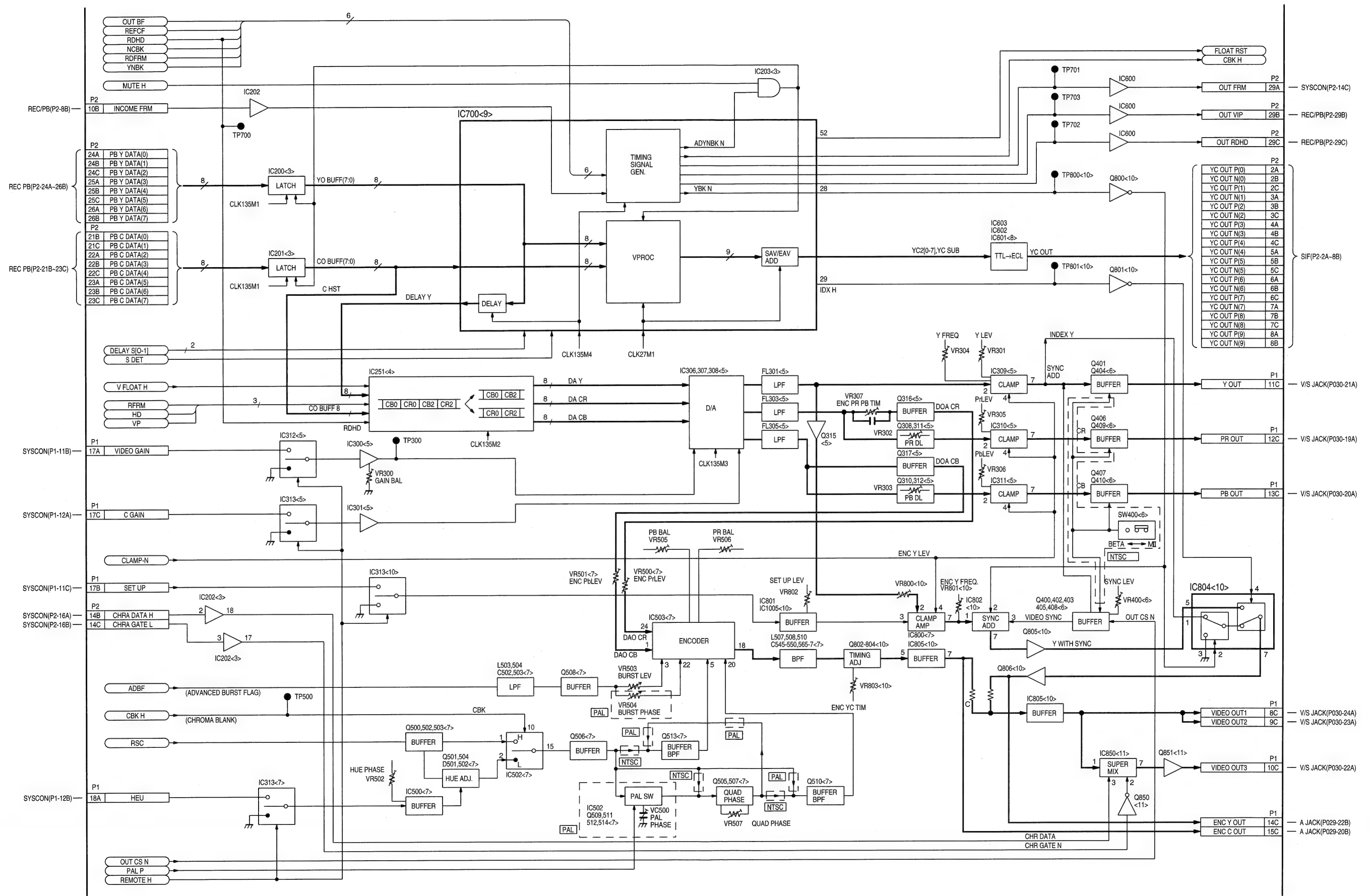
F2: SYSCON BLOCK DIAGRAM



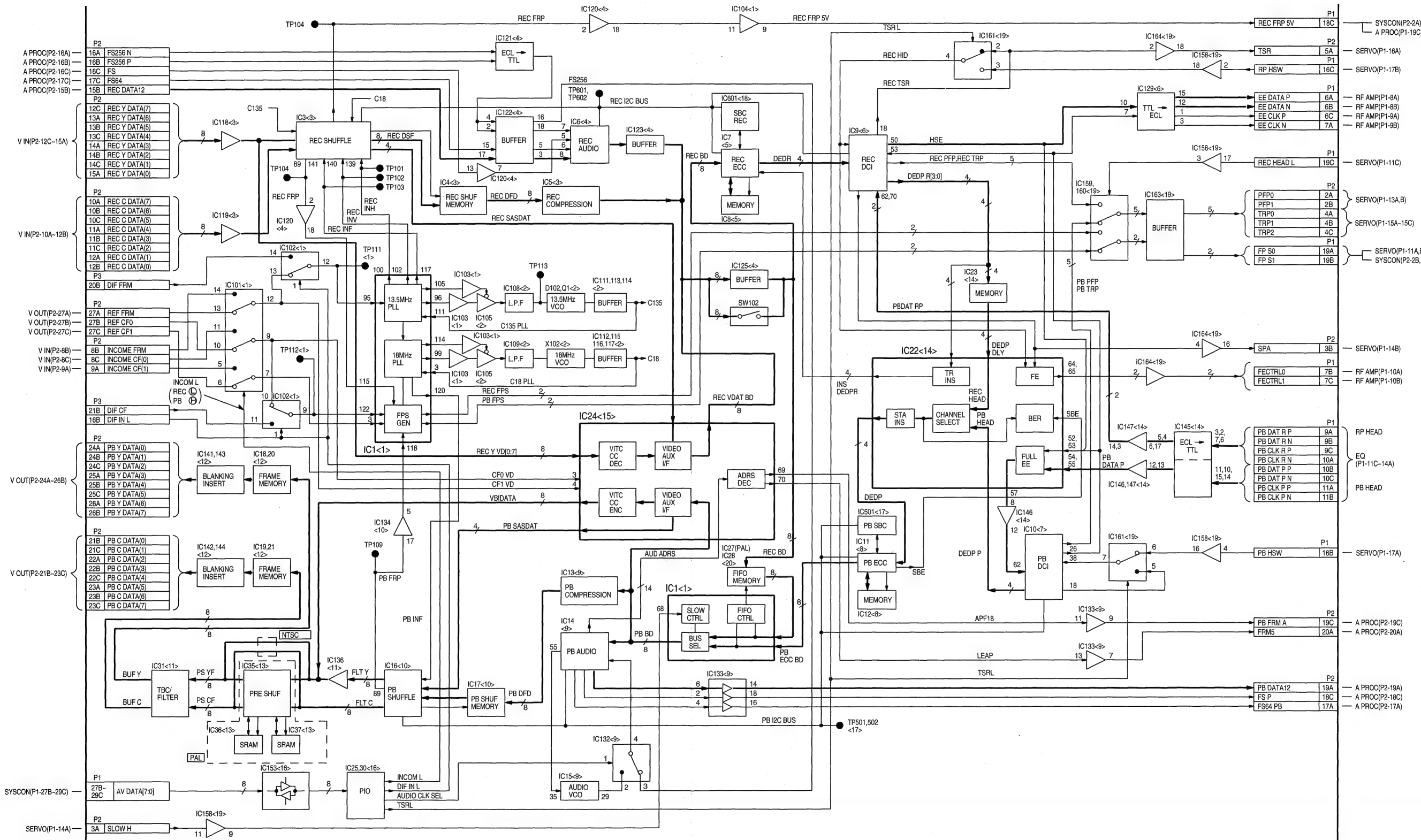
F4: V OUT 1/2 BLOCK DIAGRAM



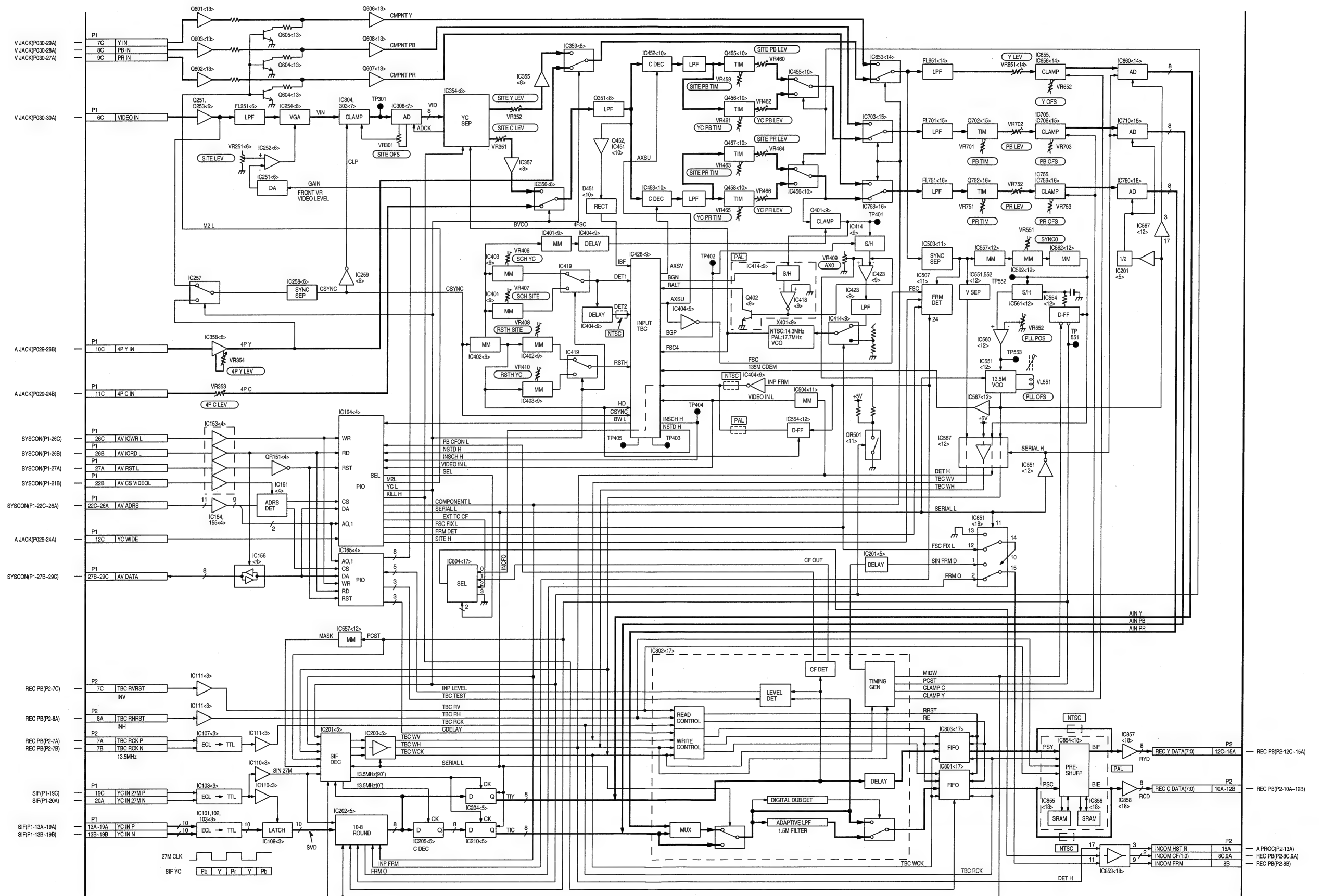
F4: V OUT 2/2 BLOCK DIAGRAM



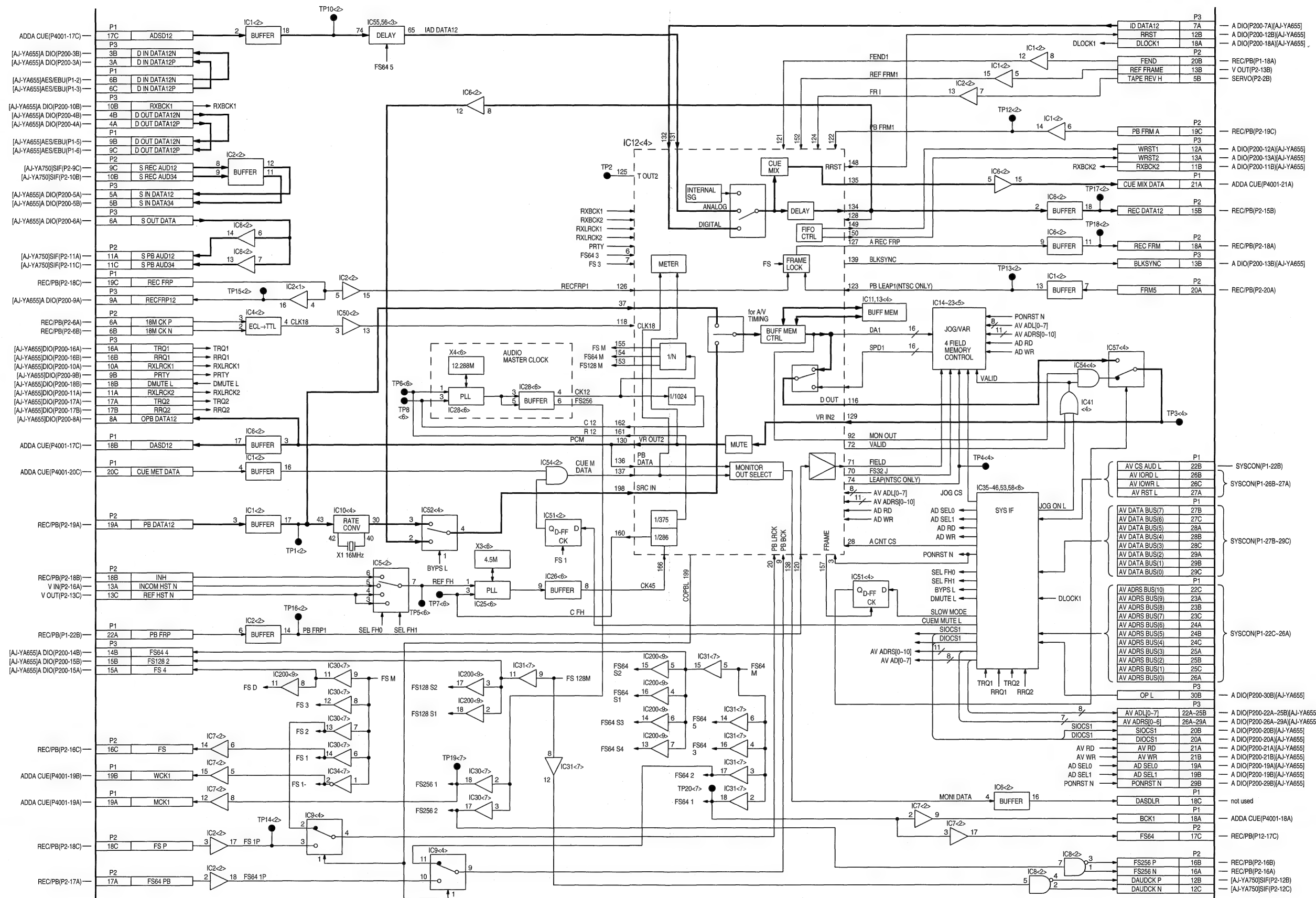
F5: REC/PB BLOCK DIAGRAM



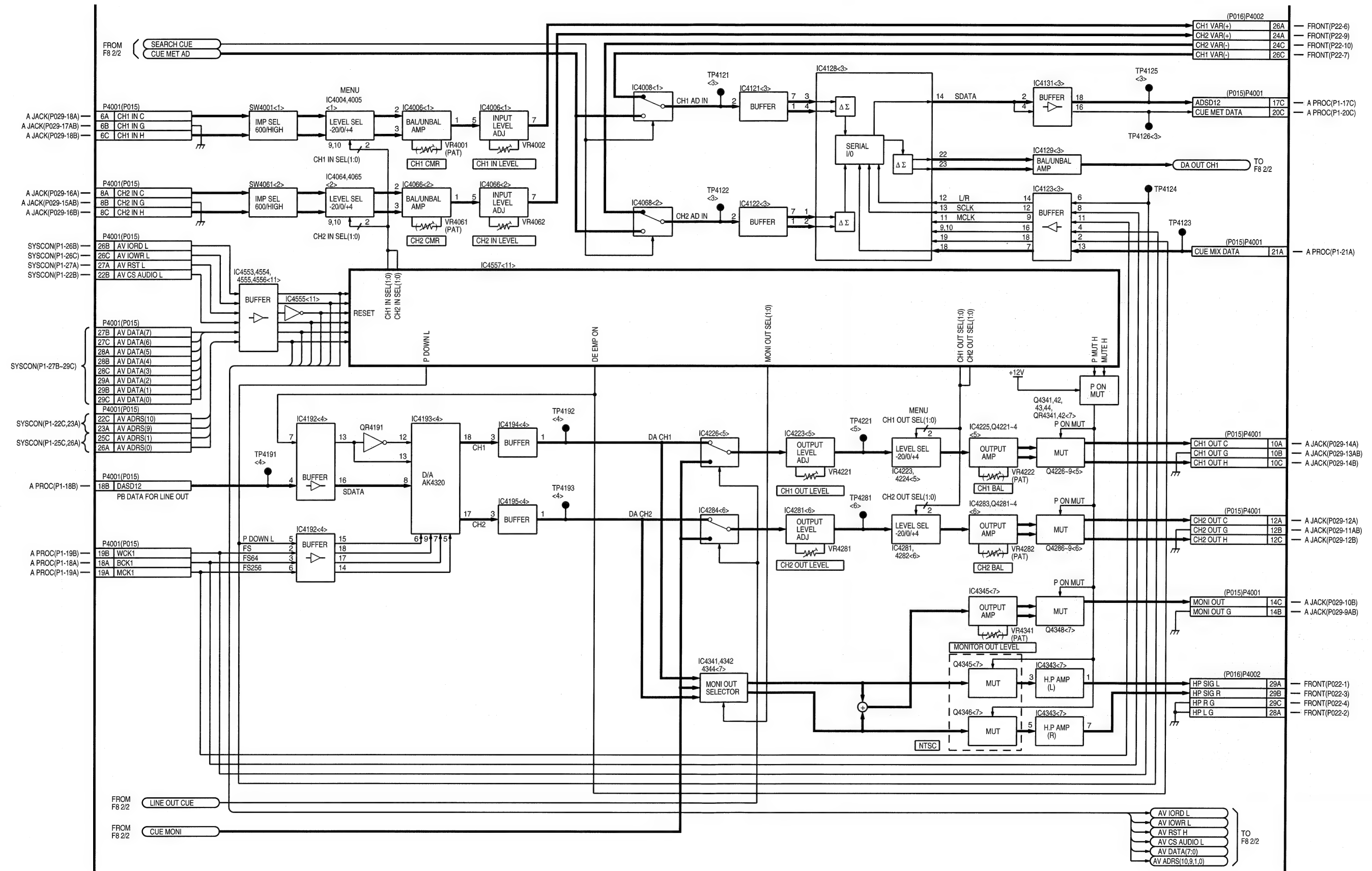
F6: V IN BLOCK DIAGRAM



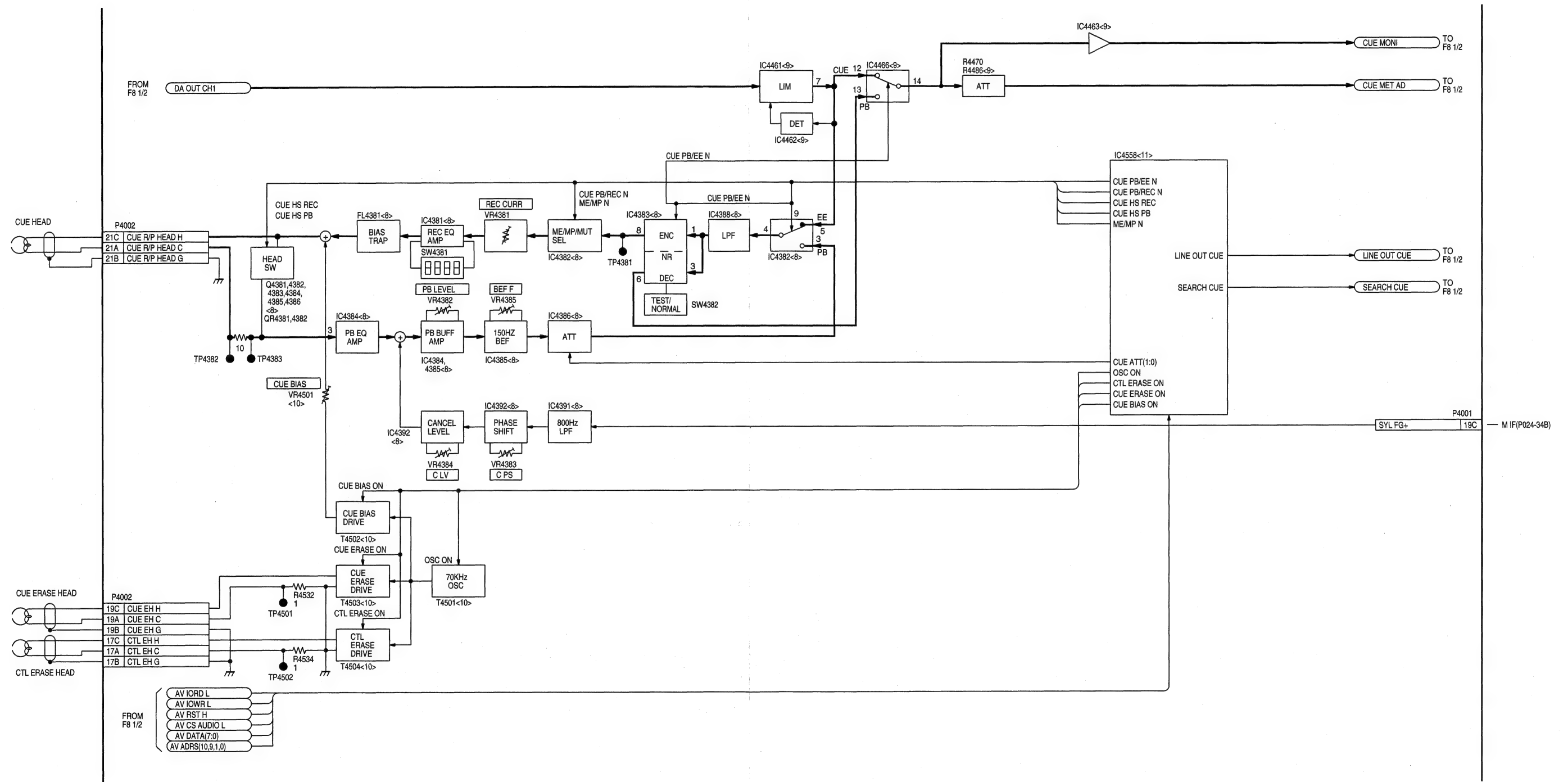
F7: A PROC BLOCK DIAGRAM



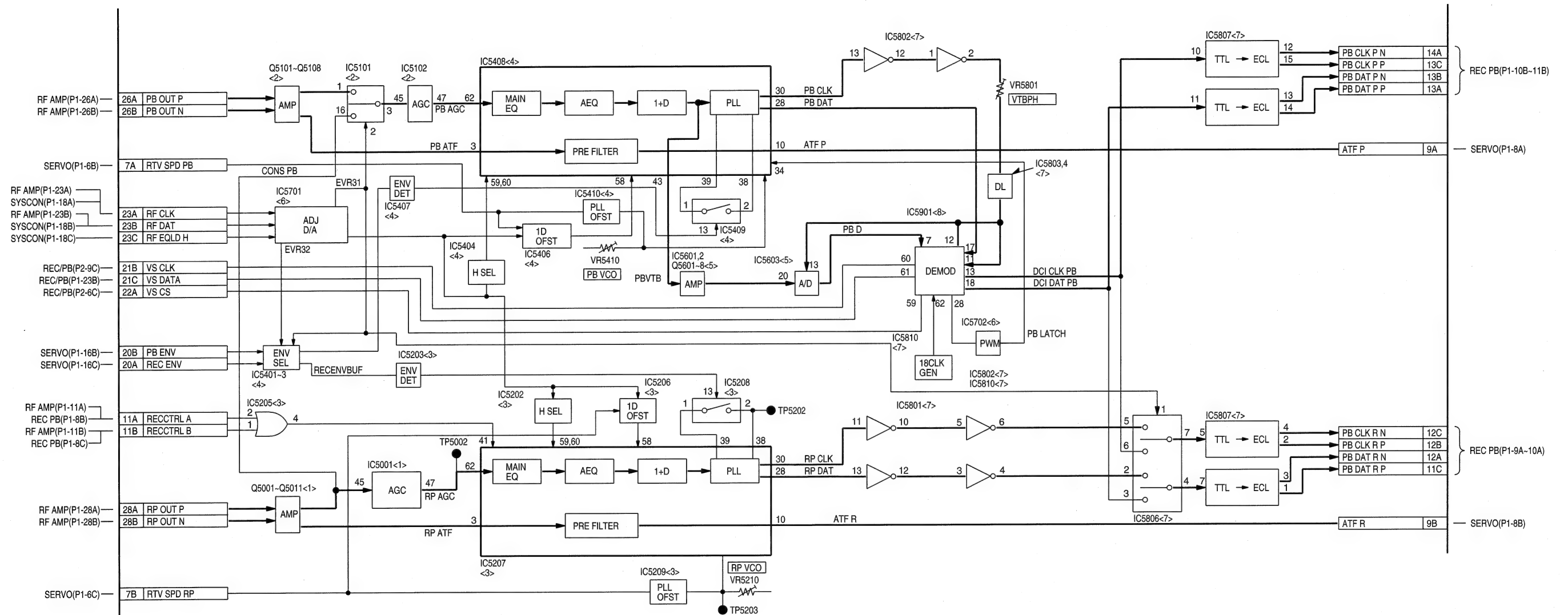
F8: ADDA CUE 1/2 BLOCK DIAGRAM



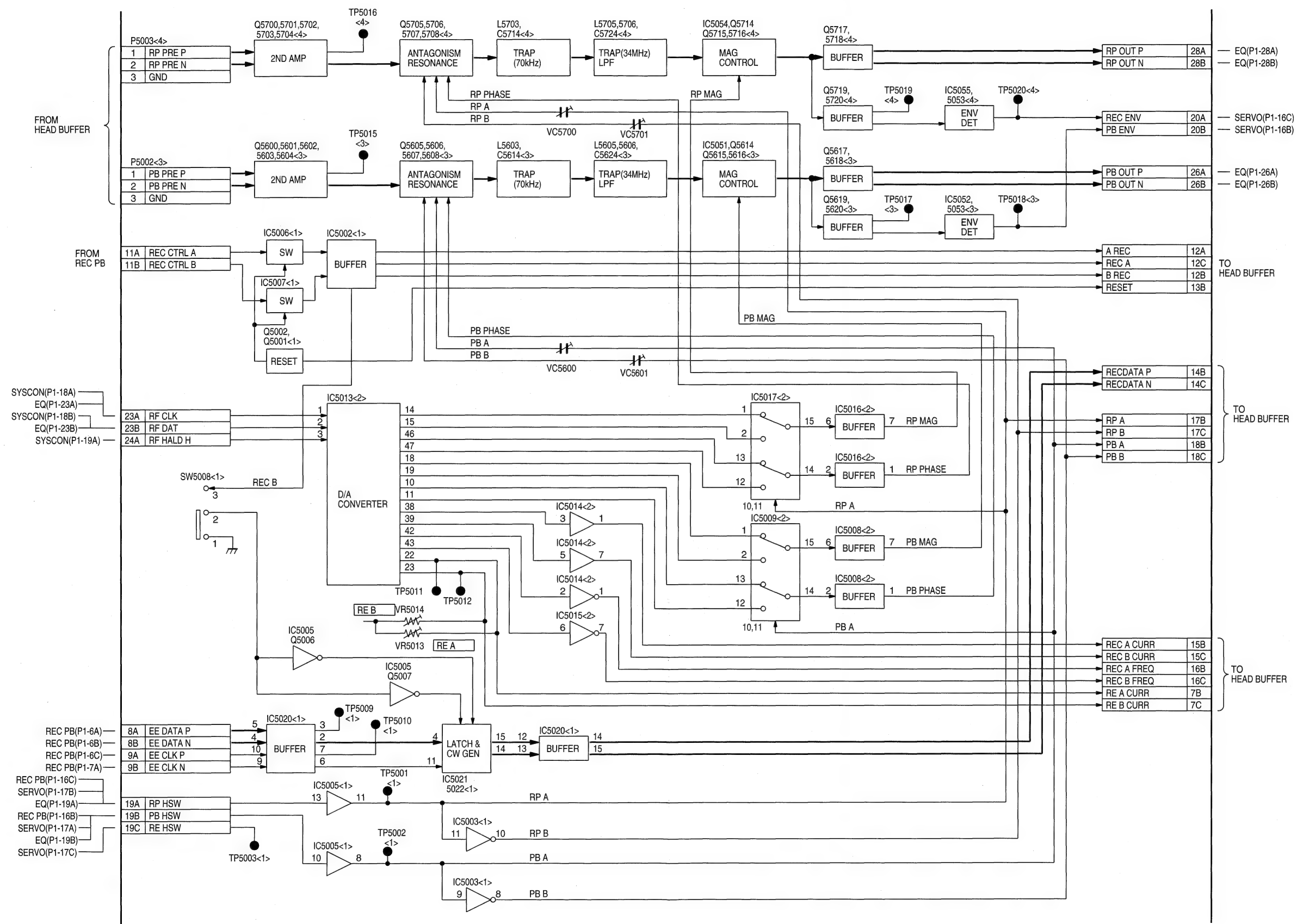
F8: ADDA CUE 2/2 BLOCK DIAGRAM



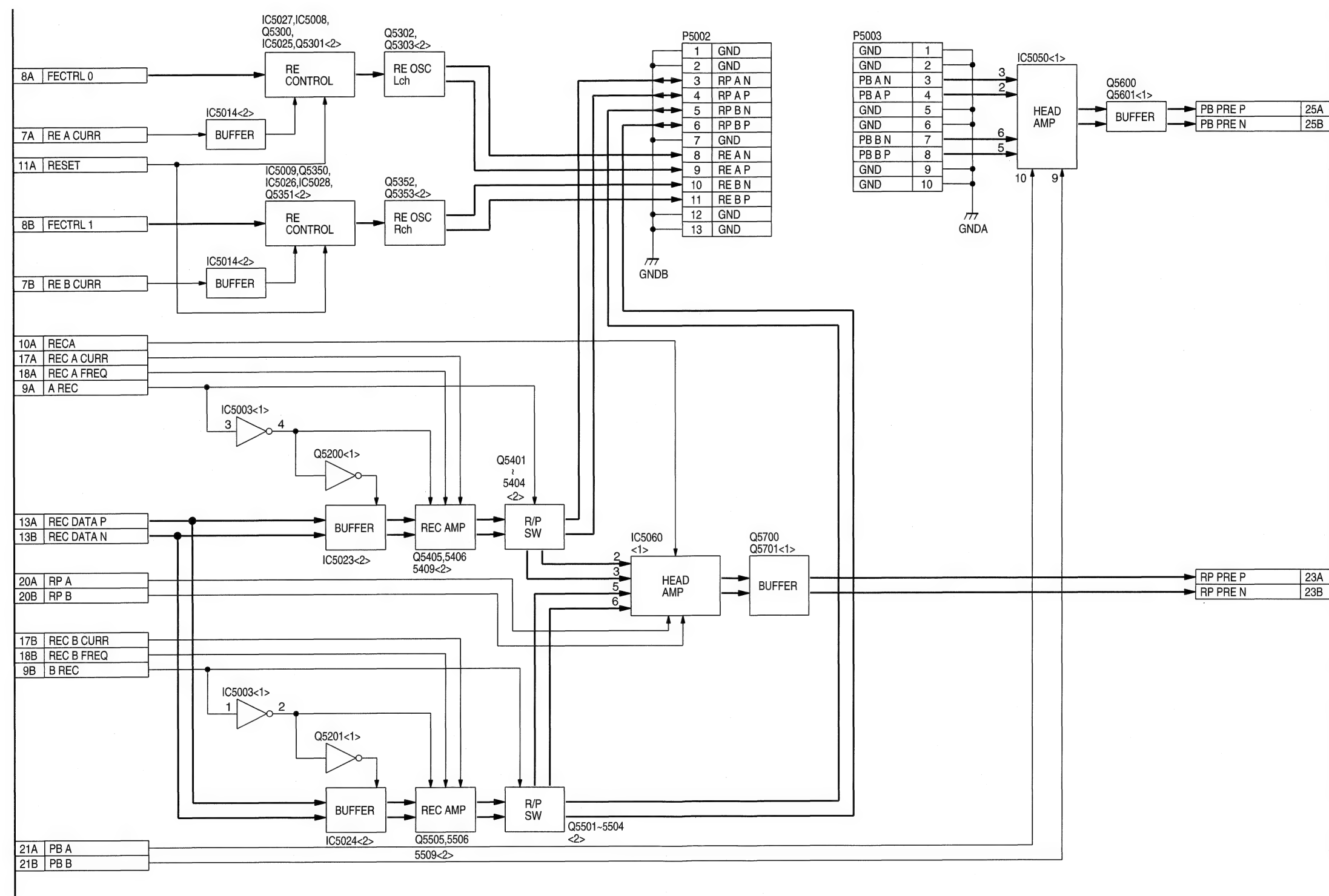
H3 EQ BLOCK DIAGRAM



H4 RF AMP BLOCK DIAGRAM



HEAD BUFFER BLOCK DIAGRAM



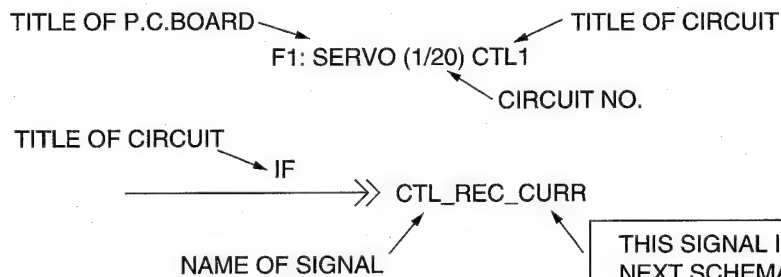
SECTION 7

SCHEMATIC DIAGRAMS

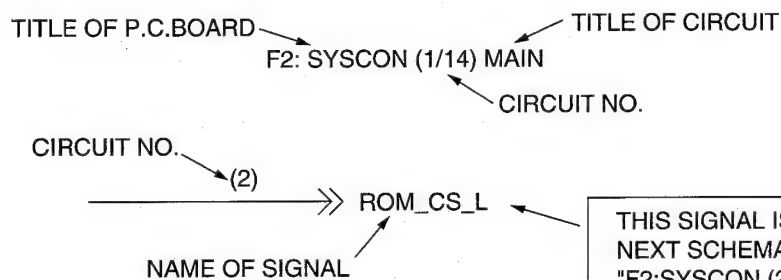
Note:

1. Do not use the part number shown on the schematic diagram or P.C.Board layout for ordering.
The correct part number for ordering is shown in the Exploded Views/Parts List section.
2. Unless otherwise specified, all resistors are in OHMS, K=1,000 OHMS, all capacitors are in MICROFARADS (μ F), P= μ μ F.

(EX1)



(EX2)



* mark ⇒ Parts value, see table in the schematic diagram.


(EX:)

	AJ-D940P	AJ-D940E	
R2018	10K	10K	← 10K Ω
R2019	20K	*PAT	← No part

NOTE:


DO NOT USE THE PART NUMBER SHOWN ON THIS DRAWING FOR ORDERING. THE CORRECT PART NUMBER SHOWN IN THE PARTS LIST.
AND MAY BE SLIGHTLY DIFFERENT OR AMENDED SINCE THIS DRAWING WAS PREPARED.

CAUTION

THE  MARK INDICATES THE PRIMARY CIRCUIT TO DISTINGUISH THE PRIMARY FROM THE SECONDARY CIRCUIT.

PAY ATTENTION NOT TO RECEIVE AN ELECTRIC SHOCK DURING REPAIR AND SERVICE OF THE PRODUCTS.

IMPORTANT SAFETY NOTICE:

COMPONENTS IDENTIFIED WITH THE MARK  HAVE THE SPECIAL CHARACTERISTICS FOR SAFETY.
WHEN REPLACING ANY OF THESE COMPONENTS, USE ONLY THE SAME TYPE.

CONTENTS

MOTHER (1/11)	SCM01	F4: V_OUT (4/16) D_BUFF	SCM47
MOTHER (2/11)	SCM02	F4: V_OUT (5/16) CMPNENT_DA	SCM48
MOTHER (3/11)	SCM03	F4: V_OUT (6/16) CMPNENT_BUFF	SCM49
MOTHER (4/11)	SCM04	F4: V_OUT (7/16) ANLOG_ENC	SCM50
MOTHER (5/11)	SCM05	F4: V_OUT (8/16) D_OUT_BUFF	SCM51
MOTHER (6/11)	SCM06	F4: V_OUT (9/16) D_ENC	SCM52
MOTHER (7/11)	SCM07	F4: V_OUT (10/16) YC_MIX	SCM53
MOTHER (8/11)	SCM08	F4: V_OUT (11/16) COMPOSITE_BUFF	SCM54
MOTHER (9/11)	SCM09	F4: V_OUT (12/16) SYNC_GEN_1	SCM55
MOTHER (10/11)	SCM10	F4: V_OUT (13/16) SYNC_GEN_2	SCM56
MOTHER (11/11)	SCM11	F4: V_OUT (14/16) SYNC_GEN_3	SCM57
F1: SERVO (1/19) CTL 1	SCM12	F4: V_OUT (15/16) SYNC_GEN_4	SCM58
F1: SERVO (2/19) CTL 2	SCM13	F4: V_OUT (16/16) REG	SCM59
F1: SERVO (3/19) CTL 3	SCM14	F5: REC PB (1/23) MPL/BUS_SEL	SCM60
F1: SERVO (4/19) CAP_FG	SCM15	F5: REC PB (2/23) PLL	SCM61
F1: SERVO (5/19) S_FG	SCM16	F5: REC PB (3/23) REC_SHUT	SCM62
F1: SERVO (6/19) T_FG	SCM17	F5: REC PB (4/23) REC_COMP, AUD	SCM63
F1: SERVO (7/19) AD_DA	SCM18	F5: REC PB (5/23) REC_ECC	SCM64
F1: SERVO (8/19) CPU 1	SCM19	F5: REC PB (6/23) REC_DCI	SCM65
F1: SERVO (9/19) CPU 2	SCM20	F5: REC PB (7/23) PB_PCI	SCM66
F1: SERVO (10/19) CPU 3	SCM21	F5: REC PB (8/23) PB_ECC	SCM67
F1: SERVO (11/19) CPU 4	SCM22	F5: REC PB (9/23) PB_AUD, COMP	SCM68
F1: SERVO (12/19) ATF	SCM23	F5: REC PB (10/23) PB_SHUF	SCM69
F1: SERVO (13/19) SW 1	SCM24	F5: REC PB (11/23) TBC/FILTER	SCM70
F1: SERVO (14/19) SW 2	SCM25	F5: REC PB (12/23) OUT_BUFF2	SCM71
F1: SERVO (15/19) CA CY DRY	SCM26	F5: REC PB (13/23) PAL	SCM72
F1: SERVO (16/19) RL_DRV	SCM27	F5: REC PB (14/23) RECPB_CTRL	SCM73
F1: SERVO (17/19) LM_DRV	SCM28	F5: REC PB (15/23) VIDEO_DATA	SCM74
F1: SERVO (18/19) POWER	SCM29	F5: REC PB (16/23) PIO	SCM75
F1: SERVO (19/19) IF	SCM30	F5: REC PB (17/23) SEC_PB	SCM76
F2: SYSCON (1/13) MAIN	SCM31	F5: REC PB (18/23) SEC_REC	SCM77
F2: SYSCON (2/13) MAIN	SCM32	F5: REC PB (19/23) SERVO_SEPA	SCM78
F2: SYSCON (3/13) MAIN	SCM33	F5: REC PB (20/23) DVC_RETERN	SCM79
F2: SYSCON (4/13) MAIN	SCM34	F5: REC PB (21/23) DIF	SCM80
F2: SYSCON (5/13) MAIN	SCM35	F5: REC PB (22/23) POWER	SCM81
F2: SYSCON (6/13) I/F	SCM36	F5: REC PB (23/23) MOTHER	SCM82
F2: SYSCON (7/13) I/F	SCM37		
F2: SYSCON (8/13) I/F	SCM38	450 (NTSC) ONLY	
F2: SYSCON (9/13) I/F	SCM39	F6: V_IN (1/20) CONNECTOR	SCM83
F2: SYSCON (10/13) AV_I/F	SCM40	F6: V_IN (2/20) POWER	SCM84
F2: SYSCON (11/13) AV_I/F	SCM41	F6: V_IN (3/20) INBUFF	SCM85
F2: SYSCON (12/13) AV_I/F	SCM42	F6: V_IN (4/20) SYS_IF	SCM86
F2: SYSCON (13/13)	SCM43	F6: V_IN (5/20) SIF_DEC	SCM87
F4: V_OUT (1/16) CONNECTOR	SCM44	F6: V_IN (6/20) GAIN_CNTRL	SCM88
F4: V_OUT (2/16) SYS_IF	SCM45	F6: V_IN (7/20) 1ST_AD	SCM89
F4: V_OUT (3/16) D_IN_BUFF	SCM46	F6: V_IN (8/20) DECODER	SCM90
		F6: V_IN (9/20) 4FSC_PLL	SCM91

F6: V_IN(10/20) C_DEM.....	SCM92
F6: V_IN (11/20) SYNC_SEP	SCM93
F6: V_IN (12/20) 135M_PLL	SCM94
F6: V_IN (13/20) M2_BACM_SELECT	SCM95
F6: V_IN (14/20) 2ND_AD_Y	SCM96
F6: V_IN (15/20) 2ND_AD_PB	SCM97
F6: V_IN (16/20) 2ND_AD_PR	SCM98
F6: V_IN (17/20) TBC	SCM99
F6: V_IN (18/20) OUTBUFF	SCM100
F6: V_IN (19/20) SLICER	SCM101
F6: V_IN (20/20) DIG_DEC	SCM102

450 (PAL) ONLY

F6: V_IN (1/20) CONNECTOR	SCM103
F6: V_IN (2/20) POWER	SCM104
F6: V_IN (3/20) INBUFF	SCM105
F6: V_IN (4/20) SYS_IF	SCM106
F6: V_IN (5/20) SIF_DEC	SCM107
F6: V_IN (6/20) GAIN_CNTRL	SCM108
F6: V_IN (7/20) 1ST_AD	SCM109
F6: V_IN (8/20) DECODER	SCM110
F6: V_IN(9/20) 4FSC_PLL.....	SCM111
F6: V_IN(10/20) C_DEM.....	SCM112
F6: V_IN (11/20) SYNC_SEP	SCM113
F6: V_IN (12/20) 135M_PLL	SCM114
F6: V_IN (13/20) M2_BCAM_SELECT	SCM115
F6: V_IN (14/20) 2ND_AD_Y	SCM116
F6: V_IN (15/20) 2ND_AD_PB	SCM117
F6: V_IN (16/20) 2ND_AD_PR	SCM118
F6: V_IN (17/20) TBC	SCM119
F6: V_IN (18/20) OUTBUFF	SCM120
F6: V_IN (19/20) SLICER	SCM121
F6: V_IN (20/20) DIG_DEC	SCM122
F7: A_PROC (1/13) CONNECTOR	SCM123
F7: A_PROC (2/13) IO_BUFFER	SCM124
F7: A_PROC (3/13) AIN_DLY.....	SCM125
F7: A_PROC (4/13) AUDIO_CNT.....	SCM126
F7: A_PROC (5/13) SLOW_CTL	SCM127
F7: A_PROC (6/13) PLL	SCM128
F7: A_PROC (7/13) CLK_BUFFER	SCM129
F7: A_PROC (8/13) SYS_IF	SCM130
F7: A_PROC (9/13) DIO_CONNECTOR...	SCM131
F7: A_PROC (10/13) DIO	SCM132
F7: A_PROC (11/13) SIO	SCM133
F7: A_PROC (12/13) DIN_DLY	SCM134
F7: A_PROC (13/13) DOUT_DLY	SCM135
F8: A_ADDA (1/12)	SCM136
F8: A_ADDA (2/12)	SCM137
F8: A_ADDA (3/12)	SCM138

F8: A_ADDA (4/12).....	SCM139
F8: A_ADDA (5/12).....	SCM140
F8: A_ADDA (6/12).....	SCM141
F8: A_ADDA (7/12).....	SCM142
F8: A_ADDA (8/12).....	SCM143
F8: A_ADDA (9/12).....	SCM144
F8: A_ADDA (10/12).....	SCM145
F8: A_ADDA (11/12).....	SCM146
F8: A_ADDA (12/12).....	SCM147
H3: EQ (1/9)	SCM148
H3: EQ (2/9)	SCM149
H3: EQ (3/9)	SCM150
H3: EQ (4/9)	SCM151
H3: EQ (5/9)	SCM152
H3: EQ (6/9)	SCM153
H3: EQ (7/9)	SCM154
H3: EQ (8/9)	SCM155
H3: EQ (9/9)	SCM156
H4: RF AMP (1/5)	SCM157
H4: RF AMP (2/5)	SCM158
H4: RF AMP (3/5)	SCM159
H4: RF AMP (4/5)	SCM160
H4: RF AMP (5/5)	SCM161
HEAD BUFFER (1/2)	SCM162
HEAD BUFFER (2/2)	SCM163
V/S_JACK (1/4)	SCM164
V/S_JACK (2/4)	SCM165
V/S_JACK (3/4)	SCM166
V/S_JACK (4/4)	SCM167
POWER_1 (1/1)NTSC	SCM168
POWER_1 (1/1)PAL	SCM169
POWER_2 (1/1)NTSC	SCM170
POWER_2 (1/2) PAL.....	SCM171
POWER_2 (2/2) PAL.....	SCM172
POWER CONNECT (1/1)PAL ONLY	SCM173
MECHA_I/F (1/4)	SCM174
MECHA_I/F (2/4)	SCM175
MECHA_I/F (3/4)	SCM176
MECHA_I/F (4/4)	SCM177
CARRIGE (1/1)	SCM178
A_JACK (1/1)	SCM179
SUB_JACK (1/1)	SCM180
EJECT (1/1)	SCM181
FRONT CPU (1/3) CPU.....	SCM182
FRONT CPU (2/3) CPU.....	SCM183
FRONT CPU (3/3) CPU.....	SCM184
HEAD PHONE (1/1)	SCM185

SERVO (F1)

P001
VJS2899A096

1A	GND
2A	+12V
3A	-12V
4A	+7.5V
5A	-7.5V
6A	GND
7A	GND
8A	ATF_P
9A	GND
10A	FEND
11A	FP_S0
12A	PB_SPEED
13A	PFP0
14A	SLOW_H
15A	TRP0
16A	TSR
17A	PB_HSW
18A	LOAD_FG
19A	
20A	
21A	
22A	SYS_AB2
23A	SYS_AB5
24A	SYS_AB8
25A	SYS_DB0
26A	SYS_DB3
27A	SYS_DB6
28A	SYS_RD_L
29A	SERVO_INT_L
30A	+5V
31A	-5V
32A	GND

P19_9A

P9_18A, P14_20B

P9_19A, P4_2B

P9_20A

P9_2A

P9_3A

P9_4A

P9_5A

P9_16B, P20_19B,

P19_19B

P23_29

P4_3C

P4_4C

P4_5C

P4_6C

P4_7C

P4_8C

P4_9C

P4_10C

P001
VJS2899A096

1B	GND
2B	+12V
3B	-12V
4B	+7.5V
5B	-7.5V
6B	RTV_SPD_PB
7B	REF_CLK
8B	ATF_R
9B	GND
10B	FLUSH
11B	FP_S1
12B	REC_SPEED
13B	PFP1
14B	SPA
15B	TRP1
16B	PB_ENV
17B	RP_HSW
18B	
19B	GND
20B	
21B	SYS_AB0
22B	SYS_AB3
23B	SYS_AB6
24B	SYS_AB9
25B	SYS_DB1
26B	SYS_DB4
27B	SYS_DB7
28B	SYS_WR_L
29B	SERVO_RESET_L
30B	+5V
31B	-5V
32B	GND

P19_7A

P19_8A

P19_9B

P9_18B

P9_19B, P4_2C

P9_20B

P9_2B

P9_3B

P9_4B

P20_20B

P20_19A, P9_16C,

P19_19A

P4_3A

P4_4A

P4_5A

P4_6A

P4_7A

P4_8A

P4_9A

P4_10A

P4_11A

P001
VJS2899A096

1C	GND
2C	+12V
3C	-12V
4C	+7.5V
5C	-7.5V
6C	RTV_SPD_RP
7C	GND
8C	GND
9C	GND
10C	
11C	REC_HEAD_L
12C	
13C	LIN_H
14C	STILL_H
15C	TRP2
16C	REC_ENV
17C	RE_HSW
18C	
19C	GND
20C	
21C	SYS_AB1
22C	SYS_AB4
23C	SYS_AB7
24C	SYS_AB10
25C	SYS_DB2
26C	SYS_DB5
27C	SERVO_CS_L
28C	SYS_BUSY_L
29C	SYS_SERVO_INT_L
30C	+5V
31C	-5V
32C	GND

P19_7B

P9_19C

P9_2C

P9_3C

P9_4C

P20_20A

P20_19C

P4_3B

P4_4B

P4_5B

P4_6B

P4_7B

P4_8B

P4_9B

P4_10B

P4_11B

P002
VJS2899A096

1A	GND
2A	CTL_PULSE
3A	
4A	T_RL_FG_SYS
5A	CYLH2-
6A	CYLH3+
7A	TENSION
8A	CYLH_V-
9A	CTL_PRE
10A	TRH1+
11A	TRH2-
12A	SRH_V+
13A	SRH1-
14A	SRH3+
15A	CAH_V-
16A	CAH2+
17A	CAH3-
18A	CAP_FG1_M
19A	CYL_FG+
20A	T_FG1_M
21A	S_FG_GND
22A	LOAD_ERR_SYS
23A	
24A	
25A	
26A	
27A	
28A	
29A	
30A	
31A	+16V
32A	GND_M

P4_11C, P10_5C

P4_13C

P24_B18

P24_A19

P24_A15

P24_B16

P24_B40

P24_A21

P24_B22

P24_A24

P24_B25

P24_A27

P24_B28

P24_A30

P24_B31

P24_A33

P24_B34

P24_A36

P24_B37

P4_A14

J1

LAND

P4_12A, P10_5B

P4_13A

P24_A18

P23_30

P24_B15

P24_A40

P24_A20

P24_B21

P24_A23

P24_B24

P24_A26

P24_B27

P24_A29

P24_B30

P24_A32

P24_B33

P24_A35

P24_B36

P24_A38

P24_A39

P23_19

P23_22

P23_25

P23_28

P002
VJS2899A096

1B	GND
2B	TAPE_REV_H
3B	CAP_FG1_SYS
4B	CYLH1-
5B	CYLH2+
6B	CLE_ON_H
7B	TENS_GND
8B	CTL_REC_CURR
9B	TRH_V+
10B	TRH1-
11B	TRH3+
12B	SRH_V-
13B	SRH2+
14B	SRH3-
15B	CAH1+
16B	CAH2-
17B	CAP_FG_VCC
18B	CAP_FG2_M
19B	T_FG_V
20B	T_FG2_M
21B	S_FG1_M
22B	CYL_PF_GND
23B	TRM3
24B	
25B	SRM3
26B	
27B	CAM3
28B	
29B	CYL_M3
30B	
31B	+16V
32B	GND_M

P4_12B

P4_13B

P24_A17

P24_B19

P24_A1

P24_A16

P24_B39

P24_B20

P24_A22

P24_B23

P24_A25

P24_B26

P24_A28

P24_B29

P24_A31

P24_B32

P24_A34

P24_B35

P24_A37

P24_B38

P23_17

P23_18

P23_20

P23_21

P23_23

P23_24

P23_26

P23_27

COMPONENT NAME	MOTHER CIRCUIT	01/11
CIRCUIT BOARD NO.	VEP80A11A	COMPONENT PATH
	KROF01(1/11)	SCM1

SYSCON (F2)

P003
VJS2899A096

1A	GND
2A	+12V
3A	-12V
4A	+7.5V
5A	-7.5V
6A	TC IN H
7A	TC OUT C
8A	RECEIVE A IO
9A	TRANSMIT B IO
10A	TRANSMIT A OUT
11A	FEND SYS
12A	C GAIN
13A	SYS SC PHASE
14A	RET GND
15A	SERIAL CLK
16A	DSR
17A	TXD
18A	RF CLK
19A	RF HALD H
20A	AV SBC DAT
21A	P1394 A
22A	AV CS APROC L
23A	AV ADRS9
24A	AV ADRS6
25A	AV ADRS3
26A	AV ADRS0
27A	AV RST L
28A	AV DATA5
29A	AV DATA2
30A	+5V
31A	-5V
32A	GND

P003
VJS2899A096

1B	GND
2B	+12V
3B	-12V
4B	+7.5V
5B	-7.5V
6B	TC IN C
7B	FAN PULSE1
8B	RECEIVE B IO
9B	RECEIVE A OUT
10B	TRANSMIT B OUT
11B	VIDEO GAIN
12B	HUE
13B	SYS SC CORSE 1
14B	P SERIAL IN
15B	STB CLK16
16B	DTR
17B	CTS
18B	RF DATA
19B	DEC DAT
20B	SBC AV DAT
21B	AV CS VIDEO L
22B	AV CS AUDIO L
23B	AV ADRS8
24B	AV ADRS5
25B	AV ADRS2
26B	AV IORD L
27B	AV DATA7
28B	AV DATA4
29B	AV DATA1
30B	+5V
31B	-5V
32B	GND

P003
VJS2899A096

1C	GND
2C	+12V
3C	-12V
4C	+7.5V
5C	-7.5V
6C	TC OUT H
7C	FAN PULSE2
8C	TRANSMIT A IO
9C	RECEIVE B OUT
10C	P1394 B
11C	SET UP
12C	SYS H PHASE
13C	SYS SC CORSE 2
14C	P SERIAL OUT
15C	P1394 C
16C	RXD
17C	RTS
18C	RF EQLD H
19C	AV SBC CLK
20C	AV SBC RQ
21C	AV CS RECPB L
22C	AV ADRS10
23C	AV ADRS7
24C	AV ADRS4
25C	AV ADRS1
26C	AV IOWR L
27C	AV DATA6
28C	AV DATA3
29C	AV DATA0
30C	+5V
31C	-5V
32C	GND

P004
VJS2899A096

1A	GND
2A	REC FRP
3A	SYS AB0
4A	SYS AB3
5A	SYS AB6
6A	SYS AB9
7A	SYS DB1
8A	SYS DB4
9A	SYS DB7
10A	SYS WR L
11A	SERVO RESET L
12A	TAPE REV H
13A	CAP FG1 SYS
14A	LOAD ERR SYS
15A	BACKUP
16A	CHAR DATA H
17A	V SYNC L
18A	CASSET INL H
19A	CASSET2 H
20A	CASSET UP L
21A	MECHA POS1 L
22A	MECHA POS3 L
23A	CAST DOWN L
24A	REEL POS1 H
25A	TAPE START L
26A	TAPE END L
27A	R STAND L2S
28A	R STAND S2L
29A	
30A	
31A	+16V
32A	GND

P004
VJS2899A096

1B	GND
2B	FP S0
3B	SYS AB1
4B	SYS AB4
5B	SYS AB7
6B	SYS AB10
7B	SYS DB2
8B	SYS DB5
9B	SERVO CS L
10B	SYS BUSY L
11B	SYS SERVO INT L
12B	FR PULSE
13B	S RL FG SYS
14B	CASSET MID H
15B	BACKUP
16B	CHAR GATE L
17B	COMP SYNC L
18B	CASSET1 H
19B	CASSET DOWN H
20B	MECHA POS2 L
21B	SAFETY TAB
22B	REEL POS2 H
23B	TAPE SENSOR ON
24B	F LOAD IN
25B	F LOAD OUT
26B	LOADING
27B	UNLOADING
28B	FR SERIOA
29B	FR SERI1A
30B	
31B	+16V
32B	GND

P004
VJS2899A096

1C	GND
2C	FP S1
3C	SYS AB2
4C	SYS AB5
5C	SYS AB8
6C	SYS DB0
7C	SYS DB3
8C	SYS DB6
9C	SYS RD L
10C	SERVO INT L
11C	CTL PULSE
12C	
13C	T RL FG SYS
14C	OUT FRM
15C	BACKUP
16C	H SYNC L
17C	CASSET INR H
18C	DEW ON H
19C	DEW GND
20C	PINCH ON
21C	PINCH OFF
22C	S BRAKE ON
23C	S BRAKE OFF
24C	T BRAKE ON
25C	T BRAKE OFF
26C	M STOPPER OFF
27C	M STOPPER ON
28C	FR SERIOB
29C	FR SERI1B
30C	
31C	+16V
32C	GND

COMPONENT NAME	MOTHER CIRCUIT	02/11
CIRCUIT BOARD NO.		
VEP80A11A		
KR0F01(2/11)		SCM2

SIF (F3)

P005
VJS2899A096

1A	GND
2A	+12V
3A	-12V
4A	+7.5V
5A	-7.5V
6A	
7A	
8A	
9A	
P3_21A	P1394_A
11A	
12A	
P11_13A	YC IN P0
P11_14A	YC IN N1
P11_15A	YC IN P3
P11_16A	YC IN N4
P11_17A	YC IN P6
P11_18A	YC IN N7
P11_19A	YC IN P9
P11_20A	YC IN 27M N
21A	
22A	SIF_FRM
P3_23A	AV_ADRS9
P3_24A	AV_ADRS6
P3_25A	AV_ADRS3
P3_26A	AV_ADRS0
P3_27A	AV_RST_L
P3_28A	AV_DATA5
P3_29A	AV_DATA2
30A	+5V
31A	-5V
32A	GND

P005
VJS2899A096

1B	GND
2B	+12V
3B	-12V
4B	+7.5V
5B	-7.5V
6B	
7B	
8B	
9B	
P3_10C	P1394_B
11B	
12B	
P11_13B	YC IN N0
P11_14B	YC IN P2
P11_15B	YC IN N3
P11_16B	YC IN P5
P11_17B	YC IN N6
P11_18B	YC IN P8
P11_19B	YC IN N9
P11_20B	SIF_CS YNC
21B	
22B	AV_CS_VIDEO_L
P3_21B	
P3_23B	AV_ADRS8
P3_24B	AV_ADRS5
P3_25B	AV_ADRS2
P3_26B	AV_IORD_L
P3_27B	AV_DATA7
P3_28B	AV_DATA4
P3_29B	AV_DATA1
30B	+5V
31B	-5V
32B	GND

P005
VJS2899A096

1C	GND
2C	+12V
3C	-12V
4C	+7.5V
5C	-7.5V
6C	
7C	
8C	
9C	
P3_15C	P1394_C
11C	
12C	
P11_13C	YC IN P1
P11_14C	YC IN N2
P11_15C	YC IN P4
P11_16C	YC IN N5
P11_17C	YC IN P7
P11_18C	YC IN N8
P11_19C	YC IN 27M P
20C	
21C	EAVSAV
22C	AV_ADRS10
P3_22C	
P3_23C	AV_ADRS7
P3_24C	AV_ADRS4
P3_25C	AV_ADRS1
P3_26C	AV_IOWR_L
P3_27C	AV_DATA6
P3_28C	AV_DATA3
P3_29C	AV_DATA0
30C	+5V
31C	-5V
32C	GND

P006
VJS2899A096

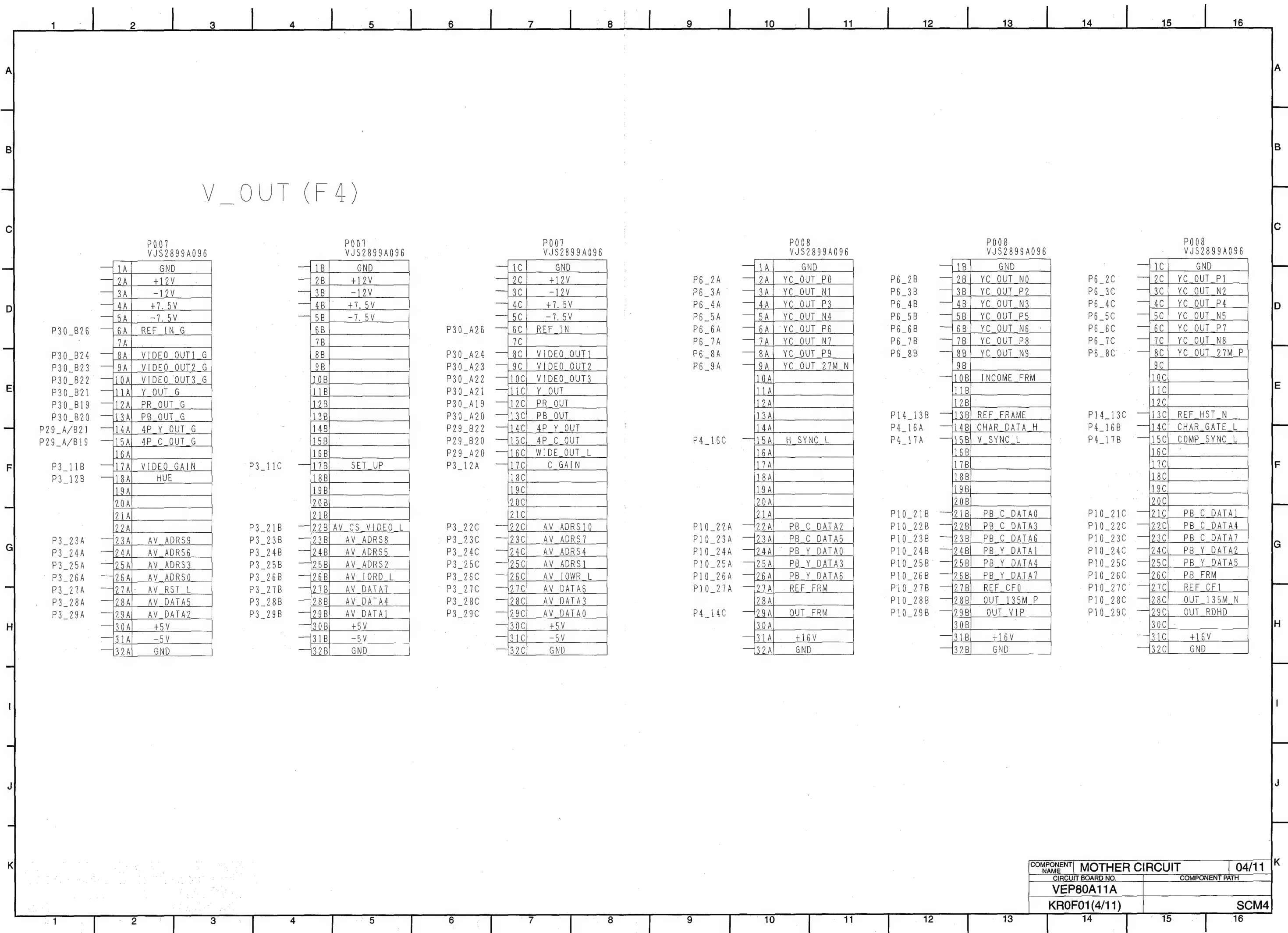
1A	GND
2A	YC OUT P0
P8_3A	3A YC OUT N1
P8_4A	4A YC OUT P3
P8_5A	5A YC OUT N4
P8_6A	6A YC OUT P6
P8_7A	7A YC OUT N7
P8_8A	8A YC OUT P9
P8_9A	9A YC OUT 27M N
P14_10A	10A S_REC_AUD12G
P14_11A	11A S_PB_AUD12G
P14_12A	12A S_PB_AUD34G
13A	
14A	
15A	
16A	
17A	
18A	
19A	
20A	
21A	
22A	
23A	
24A	
25A	
26A	
27A	
28A	
29A	
30A	
31A	+16V
32A	GND

P006
VJS2899A096

1B	GND
2B	YC OUT N0
P8_3B	3B YC OUT P2
P8_4B	4B YC OUT N3
P8_5B	5B YC OUT P5
P8_6B	6B YC OUT N6
P8_7B	7B YC OUT P8
P8_8B	8B YC OUT N9
9B	
P14_10B	10B S_REC_AUD34
P14_11B	11B S_PB_AUD12G
P14_12B	12B DAUDCK_P
13B	
14B	
15B	
16B	
17B	
18B	
19B	
20B	
21B	
22B	
23B	
24B	
25B	
26B	
27B	
28B	
29B	
30B	
31B	+16V
32B	GND

P006
VJS2899A096

1C	GND
2C	YC OUT P1
P8_3C	3C YC OUT N2
P8_4C	4C YC OUT P4
P8_5C	5C YC OUT N5
P8_6C	6C YC OUT P7
P8_7C	7C YC OUT N8
P8_8C	8C YC OUT 27M P
P14_9C	9C S_REC_AUD12
P14_10C	10C S_REC_AUD34G
P14_11C	11C S_PB_AUD34
P14_12C	12C DAUDCK_N
13C	
14C	
15C	
16C	
17C	
18C	
19C	
20C	
21C	
22C	
23C	
24C	
25C	
26C	
27C	
28C	
29C	
30C	
31C	+16V
32C	GND



REC/PB (F5)

P009
VJS2899A096

1A	GND
2A	+12V
3A	-12V
4A	+7.5V
5A	-7.5V
6A	EE DATA P
7A	EE CLK N
8A	RECI
9A	PB DAT R P
10A	PB CLK R N
11A	PB CLK P P
12A	
13A	
14A	
15A	EQ_HOLD_H
16A	REC_F_3
17A	
18A	FEND
19A	FP_S0
20A	PB_SPEED
21A	AV_SBC_CLK
22A	AV_SBC_RQ
23A	FEND_SYS
24A	AV_ADRS6
25A	AV_ADRS3
26A	AV_ADRS0
27A	AV_RST_L
28A	AV_DATA5
29A	AV_DATA2
30A	+5V
31A	-5V
32A	GND

P20_8B
P20_10A
P20_11A, P19_11A
P19_12A
P19_13A
P19_14A

P19_19A, P20_19A,
P1_17A

P1_10B
P1_11B, P4_2C
P1_12B
P3_20A
P19_19C
P19_21C
P3_24B
P3_25B
P3_26B
P3_27B
P3_28B
P3_29B

P009
VJS2899A096

1B	GND
2B	+12V
3B	-12V
4B	+7.5V
5B	-7.5V
6B	EE DATA N
7B	FECTRL0
8B	RECCTRL_A
9B	PB DAT R N
10B	PB DAT P P
11B	PB CLK P N
12B	
13B	
14B	
15B	
16B	PB_HSW
17B	
18B	FLUSH
19B	FP_S1
20B	REC_SPEED
21B	AV_SBC_DAT
22B	PB_FRP
23B	VS_DATA
24B	AV_ADRS5
25B	AV_ADRS2
26B	AV_IORD_L
27B	AV_DATA7
28B	AV_DATA4
29B	AV_DATA1
30B	+5V
31B	-5V
32B	GND

P20_9A
P20_10B
P20_11B, P19_11B
P19_12B
P19_13B

P1_17B, P19_19B,
P20_19B

P4_2A
P1_11C
P19_20C
P3_21C
P3_23C
P3_24C
P3_25C
P3_26C
P3_27C
P3_28C
P3_29C

P009
VJS2899A096

1C	GND
2C	+12V
3C	-12V
4C	+7.5V
5C	-7.5V
6C	EE CLK P
7C	FECTRL1
8C	RECCTRL_B
9C	PB CLK R P
10C	PB DAT P N
11C	
12C	
13C	
14C	
15C	
16C	RP_HSW
17C	
18C	REC_FRP
19C	REC_HEAD_L
20C	PBH
21C	SBC_AV_DAT
22C	AV_CS_REC PB_L
23C	AV_ADRS7
24C	AV_ADRS4
25C	AV_ADRS1
26C	AV_IOWR_L
27C	AV_DATA6
28C	AV_DATA3
29C	AV_DATA0
30C	+5V
31C	-5V
32C	GND

P010
VJS2899A096

1A	GND
2A	PFP0
3A	SLOW_H
4A	TRP0
5A	TSR
6A	18M CK_P
7A	TBC_RCK_P
8A	TBC_RHRST
9A	INCOME_CF1
10A	REC_C_DATA7
11A	REC_C_DATA4
12A	REC_C_DATA1
13A	REC_Y_DATA6
14A	REC_Y_DATA3
15A	REC_Y_DATA0
16A	FS256_N
17A	FS64_PB
18A	REC_FRM
19A	PB_DATA12
20A	FRM5
21A	
22A	PB_C_DATA2
23A	PB_C_DATA5
24A	PB_Y_DATA0
25A	PB_Y_DATA3
26A	PB_Y_DATA6
27A	REF_FRM
28A	
29A	OUT_FRM
30A	CASSET_POS_1
31A	+16V
32A	GND

P1_13A
P1_14A
P1_15A
P1_16A
P14_6A
P12_7A
P12_8A
P12_9A
P12_10A
P12_11A
P12_12A
P12_13A
P12_14A
P12_15A
P14_16A
P14_17A
P14_18A
P14_19A
P14_20A

P8_22A
P8_23A
P8_24A
P8_25A
P8_26A
P8_27A

P8_29A
P24_B1

P010
VJS2899A096

1B	GND
2B	PFP1
3B	SPA
4B	TRP1
5B	TAPE_REV_H
6B	18M CK_N
7B	TBC_RCK_N
8B	INCOME_FRM
9B	
10B	REC_C_DATA6
11B	REC_C_DATA3
12B	REC_C_DATA0
13B	REC_Y_DATA5
14B	REC_Y_DATA2
15B	REC_DATA12
16B	FS256_P
17B	
18B	INH
19B	PB_DATA34
20B	
21B	PB_C_DATA0
22B	PB_C_DATA3
23B	PB_C_DATA6
24B	PB_Y_DATA1
25B	PB_Y_DATA4
26B	PB_Y_DATA7
27B	REF_CF0
28B	OUT_135M_P
29B	OUT_VIP
30B	CASSET_POS_2
31B	+16V
32B	GND

P2_2B, P14_5B

P14_18B
P14_19B

P8_21B
P8_22B
P8_23B
P8_24B
P8_25B
P8_26B
P8_27B
P8_28B
P8_29B
P24_A2

P010
VJS2899A096

1C	GND
2C	LIN_H
3C	STILL_H
4C	TRP2
5C	CTL_PULSE
6C	VS_CS
7C	TBC_RVRST
8C	INCOME_CF0
9C	VS_CLK
10C	REC_C_DATA5
11C	REC_C_DATA2
12C	REC_Y_DATA7
13C	REC_Y_DATA4
14C	REC_Y_DATA1
15C	REC_DATA34
16C	FS
17C	FS64
18C	FS_P
19C	PB_FRM_A
20C	
21C	PB_C_DATA1
22C	PB_C_DATA4
23C	PB_C_DATA7
24C	PB_Y_DATA2
25C	PB_Y_DATA5
26C	PB_FRM
27C	REF_CF1
28C	OUT_135M_N
29C	OUT_RDHD
30C	CASSET_POS_3
31C	+16V
32C	GND

P1_13C
P1_14C
P1_15C
P2_2A
P19_22A
P12_7C
P12_8C
P19_21B
P12_10C
P12_11C
P12_12C
P12_13C
P12_14C
P14_15C
P14_16C
P14_17C
P14_18C
P14_19C

P8_21C
P8_22C
P8_23C
P8_24C
P8_25C
P8_26C
P8_27C
P8_28C
P8_29C
P24_B2

VIN (F6)

P011
VJS2899A096

1A	GND
2A	+12V
3A	-12V
4A	+7.5V
5A	-7.5V
6A	VIDEO IN G
7A	Y IN G
8A	PB IN G
9A	PR IN G
10A	4P Y IN G
11A	4P C IN G
12A	
13A	YC IN P0
14A	YC IN N1
15A	YC IN P3
16A	YC IN N4
17A	YC IN P6
18A	YC IN N7
19A	YC IN P9
20A	YC IN 27M N
21A	
22A	SIF FRM
23A	AV ADRS9
24A	AV ADRS6
25A	AV ADRS3
26A	AV ADRS0
27A	AV RST L
28A	AV DATA5
29A	AV DATA2
30A	+5V
31A	-5V
32A	GND

P30_B30
P30_B29
P30_B28
P30_B27
P29_A/B25
P29_A/B23

P5_13A
P5_14A
P5_15A
P5_16A
P5_17A
P5_18A
P5_19A
P5_20A

P5_22A
P3_23A
P3_24A
P3_25A
P3_26A
P3_27A
P3_28A
P3_29A

P011
VJS2899A096

1B	GND
2B	+12V
3B	-12V
4B	+7.5V
5B	-7.5V
6B	
7B	
8B	
9B	
10B	
11B	
12B	
13B	YC IN N0
14B	YC IN P2
15B	YC IN N3
16B	YC IN P5
17B	YC IN N6
18B	YC IN P8
19B	YC IN N9
20B	SIF CSYNC
21B	
22B	AV CS VIDEO L
23B	AV ADRS8
24B	AV ADRS5
25B	AV ADRS2
26B	AV IORD L
27B	AV DATA7
28B	AV DATA4
29B	AV DATA1
30B	+5V
31B	-5V
32B	GND

P5_13B
P5_14B
P5_15B
P5_16B
P5_17B
P5_18B
P5_19B
P5_20B

P3_21B
P3_23B
P3_24B
P3_25B
P3_26B
P3_27B
P3_28B
P3_29B

P011
VJS2899A096

1C	GND
2C	+12V
3C	-12V
4C	+7.5V
5C	-7.5V
6C	VIDEO IN
7C	Y IN
8C	PB IN
9C	PR IN
10C	4P Y IN
11C	4P C IN
12C	WIDE IN L
13C	YC IN P1
14C	YC IN N2
15C	YC IN P4
16C	YC IN N5
17C	YC IN P7
18C	YC IN N8
19C	YC IN 27M P
20C	
21C	EAVSAV
22C	AV ADRS10
23C	AV ADRS7
24C	AV ADRS4
25C	AV ADRS1
26C	AV IOWR L
27C	AV DATA6
28C	AV DATA3
29C	AV DATA0
30C	+5V
31C	-5V
32C	GND

P30_A30
P30_A29
P30_A28
P30_A27
P29_B26
P29_B24
P29_A24

P5_13C
P5_14C
P5_15C
P5_16C
P5_17C
P5_18C
P5_19C

P5_21C
P3_22C
P3_23C
P3_24C
P3_25C
P3_26C
P3_27C
P3_28C
P3_29C

P012
VJS2899A096

1A	GND
2A	
3A	
4A	
5A	
6A	
7A	TBC RCK P
8A	TBC RHRST
9A	INCOME CF1
10A	REC C DATA7
11A	REC C DATA4
12A	REC C DATA1
13A	REC Y DATA6
14A	REC Y DATA3
15A	REC Y DATA0
16A	INCOM HST N
17A	
18A	
19A	
20A	
21A	
22A	
23A	
24A	
25A	
26A	
27A	
28A	
29A	
30A	
31A	+16V
32A	GND

P10_7A
P10_8A
P10_9A
P10_10A
P10_11A
P10_12A
P10_13A
P10_14A
P10_15A
P14_13A

P012
VJS2899A096

1B	GND
2B	
3B	
4B	
5B	
6B	
7B	TBC RCK N
8B	INCOME FRM
9B	
10B	REC C DATA6
11B	REC C DATA3
12B	REC C DATA0
13B	REC Y DATA5
14B	REC Y DATA2
15B	
16B	
17B	
18B	
19B	
20B	
21B	
22B	
23B	
24B	
25B	
26B	
27B	
28B	
29B	
30B	
31B	+16V
32B	GND

P10_7B
P10_8B

P10_10B
P10_11B
P10_12B
P10_13B
P10_14B

P10_7C
P10_8C

P10_10C
P10_11C
P10_12C
P10_13C
P10_14C

P3_19B

P012
VJS2899A096

1C	GND
2C	
3C	
4C	
5C	
6C	
7C	TBC RVRST
8C	INCOME CF0
9C	
10C	REC C DATA5
11C	REC C DATA2
12C	REC Y DATA7
13C	REC Y DATA4
14C	REC Y DATA1
15C	
16C	
17C	
18C	
19C	
20C	
21C	
22C	DEC DAT
23C	
24C	
25C	
26C	
27C	
28C	
29C	
30C	
31C	+16V
32C	GND

COMPONENT NAME	MOTHER CIRCUIT	06/11
CIRCUIT BOARD NO.	VEP80A11A	COMPONENT PATH
KR0F01(6/11)		SCM6

A_PROC (F7)

P013 VJS2899A096	
1A	GND
2A	+12V
3A	-12V
4A	+7.5V
5A	-7.5V
P31_1	6A D_IN_DATA12G
P31_4	7A D_IN_DATA34G
	8A
P31_7	9A D_OUT_DATA12G
P31_10	10A D_OUT_DATA34G
	11A
	12A
	13A
	14A
	15A
P17_17C	16A ADSD34
P17_19A	17A MCK2
P15_18A	18A BCK1
P15_19A	19A MCK1
P18_20A	20A CUE_BCK
P15_21A	21A CUE_MIX_DATA
P19_19C	22A PB_FRP
P3_23A	23A AV_ADRS9
P3_24A	24A AV_ADRS6
P3_25A	25A AV_ADRS3
P3_26A	26A AV_ADRS0
P3_27A	27A AV_RST_L
P3_28A	28A AV_DATA5
P3_29A	29A AV_DATA2
	30A +5V
	31A -5V
	32A GND

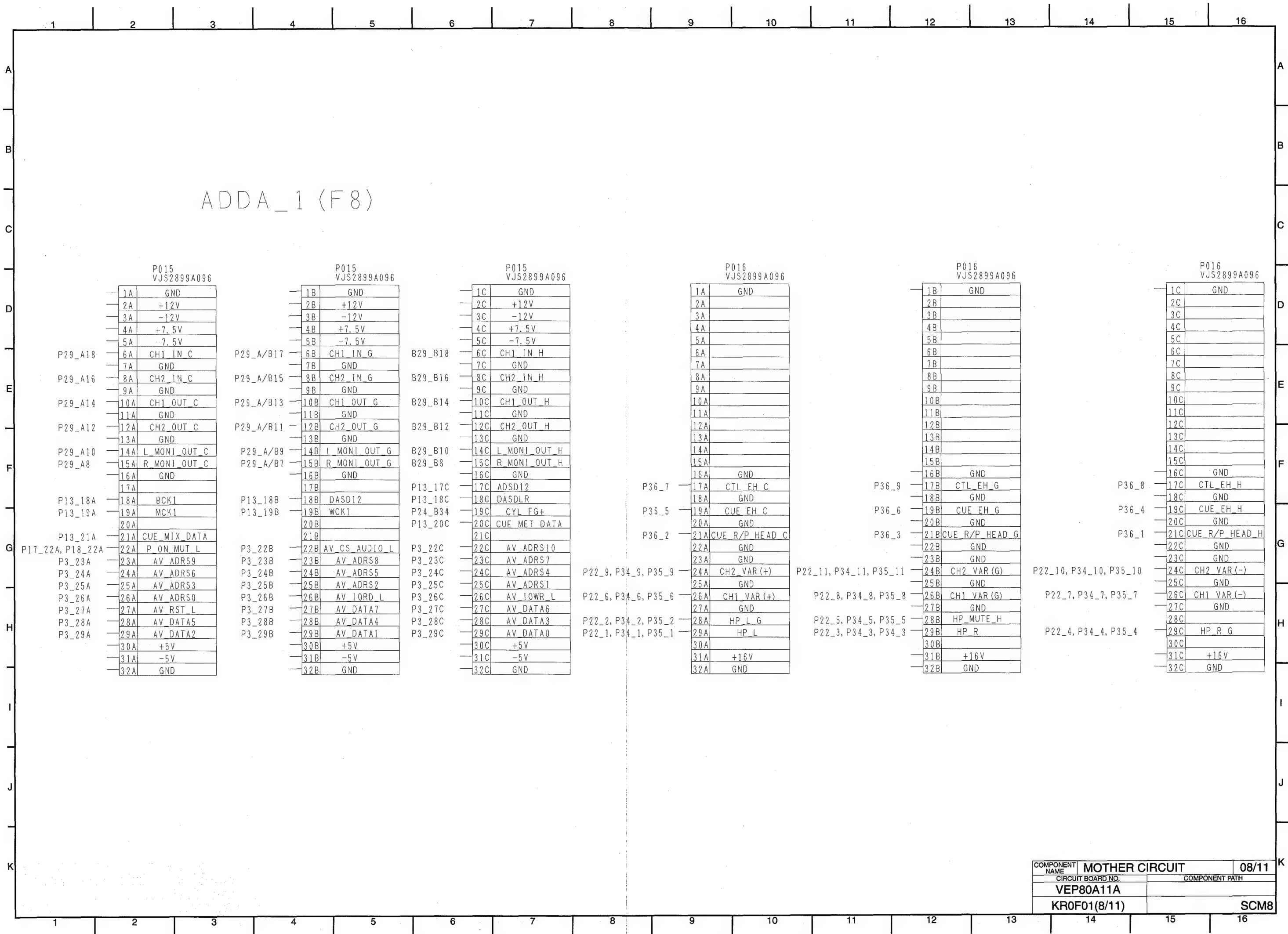
P013 VJS2899A096	
1B	GND
2B	+12V
3B	-12V
4B	+7.5V
5B	-7.5V
P31_2	6B D_IN_DATA12N
P31_5	7B D_IN_DATA34N
	8B
P31_8	9B D_OUT_DATA12N
P31_11	10B D_OUT_DATA34N
	11B
	12B
	13B
	14B
	15B
P17_18A	16B BCK2
P17_19B	17B WCK2
P15_18B	18B DASD12
P15_19B	19B WCK1
P18_20B	20B CUE_MCK
P18_21B	21B CUE_WCK
P3_22A	22B AV_CS_APROC_L
P3_23B	23B AV_ADRS8
P3_24B	24B AV_ADRS5
P3_25B	25B AV_ADRS2
P3_26B	26B AV_IORD_L
P3_27B	27B AV_DATA7
P3_28B	28B AV_DATA4
P3_29B	29B AV_DATA1
	30B +5V
	31B -5V
	32B GND

P013 VJS2899A096	
1C	GND
2C	+12V
3C	-12V
4C	+7.5V
5C	-7.5V
P31_3	6C D_IN_DATA12P
P31_6	7C D_IN_DATA34P
	8C
P31_9	9C D_OUT_DATA12P
P31_12	10C D_OUT_DATA34P
	11C
	12C
	13C
	14C
	15C
P17_18B	16C DASD34
P15_17C	17C ADSD12
P15_18C	18C DASDLR
P4_2A	19C REC_FRP
P15_20C	20C CUE_MET_DATA
	21C
P3_22A	22C AV_ADRS10
P3_23C	23C AV_ADRS7
P3_24C	24C AV_ADRS4
P3_25C	25C AV_ADRS1
P3_26C	26C AV_IOWR_L
P3_27C	27C AV_DATA6
P3_28C	28C AV_DATA3
P3_29C	29C AV_DATA0
	30C +5V
	31C -5V
	32C GND

P014 VJS2899A096	
1A	GND
2A	
3A	
4A	
5A	
P10_6A	6A 18M CK_P
	7A
	8A
	9A
P6_10A	10A S_REC_AUD12G
P6_11A	11A S_PB_AUD12
P6_12A	12A S_PB_AUD34G
P12_16A	13A INCOM_HST_N
	14A
	15A
P10_16A	16A FS256_N
P10_17A	17A FS64_PB
P10_18A	18A REC_FRM
P10_19A	19A PB_DATA12
P10_20A	20A FRM5
	21A
	22A
	23A
	24A
	25A
	26A
	27A
	28A
	29A
	30A
	31A +16V
	32A GND

P014 VJS2899A096	
1B	GND
2B	
3B	
4B	
5B	TAPE_REV_H
P10_5B	6B 18M CK_N
P10_6B	7B
	8B
	9B
P6_10B	10B S_REC_AUD34
P6_11B	11B S_PB_AUD12G
P6_12B	12B DAUDCK_P
P8_13B	13B REF_FRAME
	14B
P10_15B	15B REC_DATA12
P10_16B	16B FS256_P
	17B
P10_18B	18B INH
P10_19B	19B PB_DATA34
P9_18A, P1_10A	20B FEND
	21B
	22B
	23B
	24B
	25B
	26B
	27B
	28B
	29B
	30B
	31B +16V
	32B GND

P014 VJS2899A096	
1C	GND
2C	
3C	
4C	
5C	
6C	
7C	
8C	
P6_9C	9C S_REC_AUD12
P6_10C	10C S_REC_AUD34G
P6_11C	11C S_PB_AUD34
P6_12C	12C DAUDCK_N
P8_13C	13C REF_HST_N
	14C
P10_15C	15C REC_DATA34
P10_16C	16C FS
P10_17C	17C FS64
P10_18C	18C FS_P
P10_19C	19C PB_FRM_A
	20C
	21C
	22C
	23C
	24C
	25C
	26C
	27C
	28C
	29C
	30C
	31C +16V
	32C GND



ADDA_2 (H1)

CUE (H2)

P017
VJS2899A096

1A	GND
2A	+12V
3A	-12V
4A	+7.5V
5A	-7.5V
6A	
7A	GND
8A	
9A	GND
10A	
11A	GND
12A	
13A	GND
14A	
15A	
16A	
17A	
18A	BCK2
19A	MCK2
20A	
21A	
22A	P_ON_MUT_L
23A	AV_ADRS9
24A	AV_ADRS6
25A	AV_ADRS3
26A	AV_ADRS0
27A	AV_RST_L
28A	AV_DATA5
29A	AV_DATA2
30A	+5V
31A	-5V
32A	GND

P017
VJS2899A096

1B	GND
2B	+12V
3B	-12V
4B	+7.5V
5B	-7.5V
6B	
7B	GND
8B	
9B	GND
10B	
11B	GND
12B	
13B	GND
14B	
15B	
16B	
17B	
18B	DASD34
19B	WCK2
20B	
21B	
22B	AV_CS_AUDIO_L
23B	AV_ADRS8
24B	AV_ADRS5
25B	AV_ADRS2
26B	AV_IORD_L
27B	AV_DATA7
28B	AV_DATA4
29B	AV_DATA1
30B	+5V
31B	-5V
32B	GND

P017
VJS2899A096

1C	GND
2C	+12V
3C	-12V
4C	+7.5V
5C	-7.5V
6C	
7C	GND
8C	
9C	GND
10C	
11C	GND
12C	
13C	GND
14C	
15C	
16C	
17C	ADSD34
18C	
19C	
20C	
21C	
22C	AV_ADRS10
23C	AV_ADRS7
24C	AV_ADRS4
25C	AV_ADRS1
26C	AV_IOWR_L
27C	AV_DATA6
28C	AV_DATA3
29C	AV_DATA0
30C	+5V
31C	-5V
32C	GND

P018
VJS2899A096

1A	GND
2A	+12V
3A	-12V
4A	+7.5V
5A	-7.5V
6A	CUE_IN_C
7A	GND
8A	CUE_OUT_C
9A	GND
10A	
11A	
12A	
13A	
14A	
15A	
16A	
17A	
18A	
19A	
20A	CUE_BCK
21A	CUE_MIX_DATA
22A	P_ON_MUT_L
23A	AV_ADRS9
24A	AV_ADRS6
25A	AV_ADRS3
26A	AV_ADRS0
27A	AV_RST_L
28A	AV_DATA5
29A	AV_DATA2
30A	+5V
31A	-5V
32A	GND

P018
VJS2899A096

1B	GND
2B	+12V
3B	-12V
4B	+7.5V
5B	-7.5V
6B	CUE_IN_G
7B	GND
8B	CUE_OUT_G
9B	GND
10B	
11B	
12B	
13B	
14B	
15B	
16B	
17B	
18B	
19B	
20B	CUE_MCK
21B	CUE_WCK
22B	AV_CS_AUDIO_L
23B	AV_ADRS8
24B	AV_ADRS5
25B	AV_ADRS2
26B	AV_IORD_L
27B	AV_DATA7
28B	AV_DATA4
29B	AV_DATA1
30B	+5V
31B	-5V
32B	GND

P018
VJS2899A096

1C	GND
2C	+12V
3C	-12V
4C	+7.5V
5C	-7.5V
6C	CUE_IN_H
7C	GND
8C	CUE_OUT_H
9C	GND
10C	
11C	
12C	
13C	
14C	
15C	
16C	
17C	
18C	CYL_FG+
19C	
20C	CUE_MET_DATA
21C	
22C	AV_ADRS10
23C	AV_ADRS7
24C	AV_ADRS4
25C	AV_ADRS1
26C	AV_IOWR_L
27C	AV_DATA6
28C	AV_DATA3
29C	AV_DATA0
30C	+5V
31C	-5V
32C	GND

P13_16B
P13_17A

P13_16C
P13_17B

P13_16A

P3_22C
P3_23C
P3_24C
P3_25C
P3_26C
P3_27C
P3_28C
P3_29C

P29_A30
P29_A28

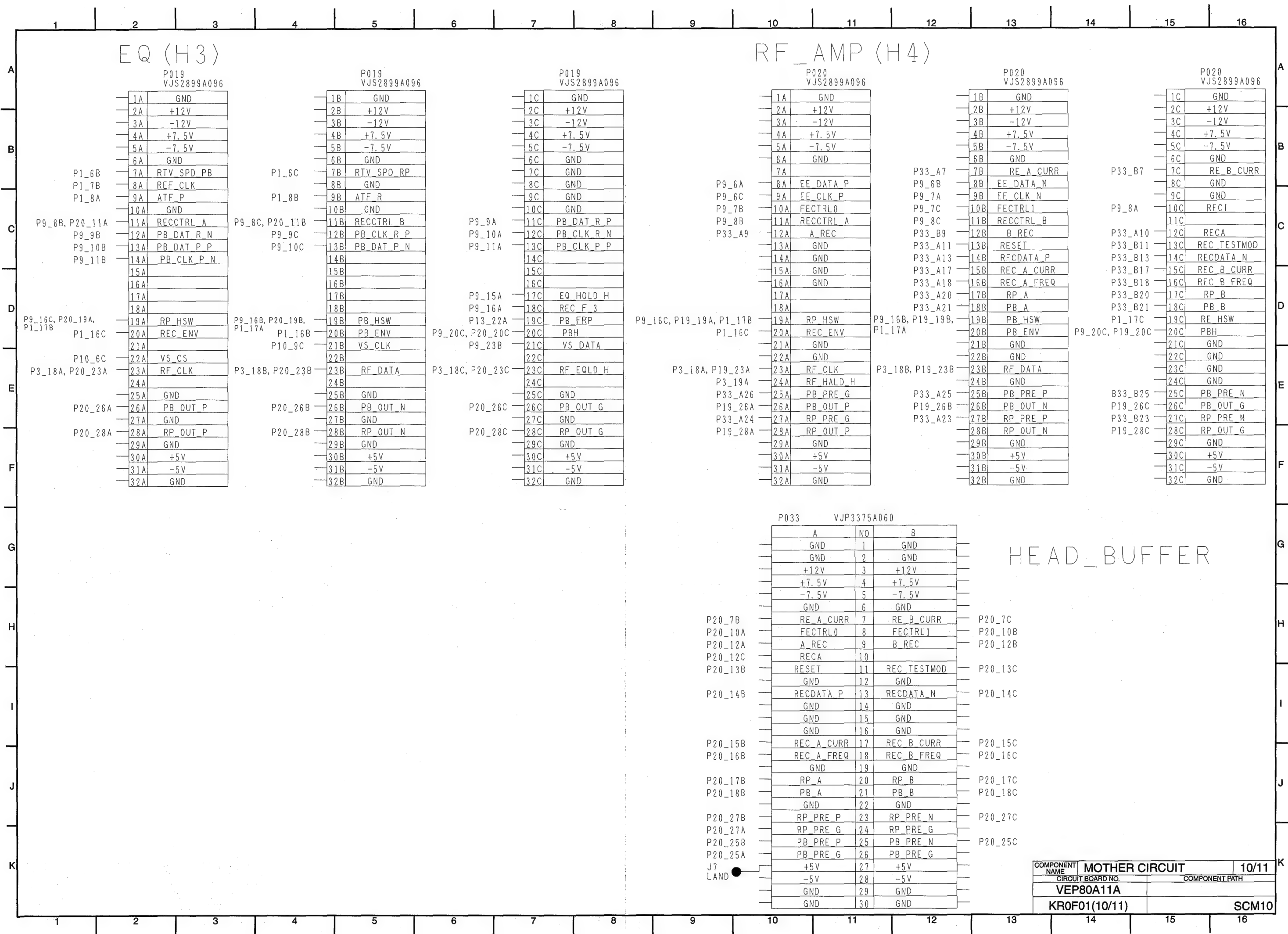
P13_20A
P13_21A
P15/17_22A
P15/17_23A
P15/17_24A
P15/17_25A
P15/17_26A
P15/17_27A
P15/17_28A
P15/17_29A

P29_A/829
P29_A/827

P13_20B
P13_21B
P15/17_22B
P15/17_23B
P15/17_24B
P15/17_25B
P15/17_26B
P15/17_27B
P15/17_28B
P15/17_29B

P29_B30
P29_B28

P24_B34
P13_20C
P5/17_22C
P5/17_23C
P5/17_24C
P5/17_25C
P5/17_26C
P5/17_27C
P5/17_28C
P5/17_29C



1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16

A B C D E F G H I J K

TO V/S_JACK

TO A_JACK

TO M_IF

TO M_IF

TO POWER

P030 VJS3375B060

P029 VJS3375B060

P023 VJP2891A030

P024 VJP3418A080

P027 VJP2824B008

	A	NO	B	
P3_17B	CTS	1	RTS	P3_17C
P3_16C	RXD	2	TXD	P3_17A
P3_16A	DSR	3	DTR	P3_16B
P3_15B	STB CLK16	4		
P3_14C	P_SERIAL_OUT	5	SERIAL_CLK	P3_15A
P3_14A	RET_GND	6	P_SERIAL_IN	P3_14B
P3_13B	SYS_SC_CORSE_1	7	SYS_SC_CORSE_2	P3_13C
P3_12C	SYS_H_PHASE	8	SYS_SC_PHASE	P3_13A
P3_12A	C_GAIN	9	HUE	P3_12B
P3_11B	VIDEO_GAIN	10	SET_UP	P3_11C
	+5V	11	GND	
P3_10A	TRANSMIT_A_OUT	12	TRANSMIT_B_OUT	P3_10B
P3_9B	RECEIVE_A_OUT	13	RECEIVE_B_OUT	P3_9C
P3_8C	TRANSMIT_A_IO	14	TRANSMIT_B_IO	P3_9A
P3_8A	RECEIVE_A_IO	15	RECEIVE_B_IO	P3_8B
	+5V	16	GND	
	-12V	17	-12V	
	+12V	18	+12V	
P7_12C	PR_OUT	19	PR_OUT_G	P7_12A
P7_13C	PB_OUT	20	PB_OUT_G	P7_13A
P7_11C	Y_OUT	21	Y_OUT_G	P7_11A
P7_10C	VIDEO_OUT3	22	VIDEO_OUT3_G	P7_10A
P7_9C	VIDEO_OUT2	23	VIDEO_OUT2_G	P7_9A
P7_8C	VIDEO_OUT1	24	VIDEO_OUT1_G	P7_8A
	GND	25	GND	
P7_6C	REF_IN	26	REF_IN_G	P7_6A
P11_9C	PR_IN	27	PR_IN_G	P11_9A
P11_8C	PB_IN	28	PB_IN_G	P11_8A
P11_7C	Y_IN	29	Y_IN_G	P11_7A
P11_6C	VIDEO_IN	30	VIDEO_IN_G	P11_6A

	A	NO	B	
	+12V	1	+12V	
	-12V	2	-12V	
	GND	3	GND	
P3_7A	TC_OUT_C	4	TC_OUT_H	P3_6C
	GND	5	GND	
P3_6B	TC_IN_C	6	TC_IN_H	P3_6A
P15_15B	R_MONI_OUT_G	7	R_MONI_OUT_H	P15_15C
P15_15A	R_MONI_OUT_C	8	R_MONI_OUT_H	
P15_14B	L_MONI_OUT_G	9	L_MONI_OUT_H	P15_14C
P15_14A	L_MONI_OUT_C	10	L_MONI_OUT_H	
P15_12B	CH2_OUT_G	11	CH2_OUT_H	P15_12C
P15_12A	CH2_OUT_C	12	CH2_OUT_H	
P15_10B	CH1_OUT_G	13	CH1_OUT_H	P15_10C
P15_10A	CH1_OUT_C	14	CH1_OUT_H	
P15_8B	CH2_IN_G	15	CH2_IN_H	P15_8C
P15_8A	CH2_IN_C	16	CH2_IN_H	
P15_6B	CH1_IN_G	17	CH1_IN_H	P15_6C
P15_6A	CH1_IN_C	18	CH1_IN_H	
	4P_C_OUT_G	19	4P_C_OUT_H	P7_15A
P13_14A	WIDE_OUT_L	20	4P_C_OUT	P7_15C
	4P_Y_OUT_G	21	4P_Y_OUT_H	P7_14A
		22	4P_Y_OUT	P7_14C
	4P_C_IN_G	23	4P_C_IN_H	P11_11A
P11_12C	WIDE_IN_L	24	4P_C_IN	P11_11C
	4P_Y_IN_G	25	4P_Y_IN_H	P11_10A
		26	4P_Y_IN	P11_10C
	CUE_OUT_G	27	CUE_OUT_H	P18_8B
P18_8A	CUE_OUT_C	28	CUE_OUT_H	P18_8C
	CUE_IN_G	29	CUE_IN_H	P18_6B
P18_6A	CUE_IN_C	30	CUE_IN_H	P18_6C

	1	GND
	2	GND
	3	GND
	4	+12V
	5	-12V
	6	+5V
P4_27A	7	R_STAND_L2S
P4_28A	8	R_STAND_S2L
P4_20C	9	PINCH_ON
P4_21C	10	PINCH_OFF
P4_22C	11	S_BRAKE_ON
P4_23C	12	S_BRAKE_OFF
P4_24C	13	T_BRAKE_ON
P4_25C	14	T_BRAKE_OFF
P4_26C	15	M_STOPPER_OFF
P4_27C	16	M_STOPPER_ON
P2_23C	17	TRM1
P2_24C	18	TRM2
P2_23B	19	TRM3
P2_25C	20	SRM1
P2_26C	21	SRM2
P2_25B	22	SRM3
P2_27C	23	CAM1
P2_28C	24	CAM2
P2_27B	25	CAM3
P2_29C	26	CYL_M1
P2_30C	27	CYL_M2
P2_29B	28	CYL_M3
P1_18A	29	LOAD_FG
P2_6B	30	CLE_ON_H

	A	NO	B	
P2_6C	CHECK_LINE_2	1	CASSET_POS_1	P10_30A
P10_30B	CASSET_POS_2	2	CASSET_POS_3	P10_30C
P4_14B	CASSET_MID_H	3	GND	
P4_17C	CASSET_INR_H	4	CASSET_INL_H	P4_18A
P4_18B	CASSET1_H	5	DEW_ON_H	P4_18C
P4_19A	CASSET2_H	6	DEW_GND	P4_19C
P4_19B	CASSET_DOWN_H	7	CASSET_UP_L	P4_20A
P4_20B	MECHA_POS2_L	8	MECHA_POS1_L	P4_21A
P4_21B	SAFETY_TAB	9	MECHA_POS3_L	P4_22A
P4_22B	REEL_POS2_H	10	CAST_DOWN_L	P4_23A
P4_23B	TAPE_SENSOR_ON	11	REEL_POS1_H	P4_24A
P4_24B	F_LOAD_IN	12	F_LOAD_OUT	P4_25B
P4_25A	TAPE_START_L	13	TAPE_END_L	P4_26A
P4_26B	LOADING	14	UNLOADING	P4_27B
P2_7A	TENSION	15	TENS_GND	P2_7B
P2_7C	CYLH_V+	16	CYLH_V-	P2_8A
P2_4C	CYLH1+	17	CYLH1-	P2_4B
P2_5B	CYLH2+	18	CYLH2-	P2_5A
P2_6A	CYLH3+	19	CYLH3-	P2_5C
P2_9B	TRH_V+	20	TRH_V-	P2_9C
P2_10A	TRH1+	21	TRH1-	P2_10B
P2_10C	TRH2+	22	TRH2-	P2_11A
P2_11B	TRH3+	23	TRH3-	P2_11C
P2_12A	SRH_V+	24	SRH_V-	P2_12B
P2_12C	SRH1+	25	SRH1-	P2_13A
P2_13B	SRH2+	26	SRH2-	P2_13C
P2_14A	SRH3+	27	SRH3-	P2_14B
P2_14C	CAH_V+	28	CAH_V-	P2_15A
P2_15B	CAH1+	29	CAH1-	P2_15C
P2_16A	CAH2+	30	CAH2-	P2_16B
P2_16C	CAH3+	31	CAH3-	P2_17A
P2_17B	CAP_FG_VCC	32	CAP_FG_GND	P2_17C
P2_18A	CAP_FG1_M	33	CAP_FG2_M	P2_18B
P2_18C	CYL_PG+	34	CYL_PG-	P2_19A
P2_19B	T_FG_V	35	T_FG_GND	P2_19C
P2_20A	T_FG1_M	36	T_FG2_M	P2_20B
P2_20C	S_FG_V	37	S_FG_GND	P2_21A
P2_21B	S_FG1_M	38	S_FG2_M	P2_21C
P2_22B	CYL_PF_GND	39	CTL_GND	P2_8C
P2_8B	CTL_REC_CURR	40	CTL_PRE	P2_9A

	1	-7.5V
	2	+7.5V
	3	-12V
	4	+12V
	5	GND
	6	GND
	7	GND
	8	GND

P026 VJP2824B006

	1	GND
	2	GND
	3	GND
	4	-5V
	5	+5V
	6	+5V

P025 VJP2824B003

	1	FAN_PULSE1
	2	GND_M
	3	+16V

TO FAN_MOTOR

P032 VJP1230T

	1	+12V
	2	FAN_PULSE2
	3	GND

TO AC_HEAD_I/F

P036 IL-S_AN

P16_21C	1	CUE_R/P_HEAD_H
P16_21A	2	CUE_R/P_HEAD_C
P16_21B	3	CUE_R/P_HEAD_G
P16_19C	4	CUE_EH_H
P16_19A	5	CUE_EH_C
P16_19B	6	CUE_EH_G
P16_17A	7	CTL_EH_C
P16_17C	8	CTL_EH_H
P16_17B	9	CTL_EH_G
	10	

TO FRONT

P021 IL-S_AN

P4_28B	1	FR_SERIOA
P4_28C	2	FR_SERIOB
P4_29B	3	FR_SERIOA
P4_29C	4	FR_SERIOB
	5	+5V
J3 LAND	6	+5V
J4 LAND	7	+5V
J5 LAND	8	+5V
	9	GND
	10	GND
	11	GND
	12	GND
	13	GND
	14	-12V
	15	+12V

TO FRONT

P022 IL-S_AN

P16_29A, P34_1, P35_1	1	HP_L
P16_28A, P34_2, P35_2	2	HP_L_G
P16_29B, P34_3, P35_3	3	HP_R
P16_29C, P34_4, P35_4	4	HP_R_G
P16_28B, P34_5, P35_5	5	HP_MUTE_H
P16_26A, P34_6, P35_6	6	CH1_VAR(+)
P16_26C, P34_7, P35_7	7	CH1_VAR(-)
P16_26B, P34_8, P35_8	8	CH1_VAR(G)
P16_24A, P34_9, P35_9	9	CH2_VAR(+)
P16_24C, P34_10, P35_10	10	CH2_VAR(-)
P16_24B, P34_11, P35_11	11	CH2_VAR(G)

P034 IL-S_ST

P16_29A, P22_1, P34_1	1	HP_L
P16_28A, P22_2, P34_2	2	HP_L_G
P16_29B, P22_3, P34_3	3	HP_R
P16_29C, P22_4, P34_4	4	HP_R_G
P16_28B, P22_5, P34_5	5	HP_MUTE_H
P16_26A, P22_6, P34_6	6	CH1_VAR(+)
P16_26C, P22_7, P34_7	7	CH1_VAR(-)
P16_26B, P22_8, P34_8	8	CH1_VAR(G)
P16_24A, P22_9, P34_9	9	CH2_VAR(+)
P16_24C, P22_10, P34_10	10	CH2_VAR(-)
P16_24B, P22_11, P34_11	11	CH2_VAR(G)

P035 IL-S_ST

P16_29A, P22_1, P34_1	1	HP_L
P16_28A, P22_2, P34_2	2	HP_L_G
P16_29B, P22_3, P34_3	3	HP_R
P16_29C, P22_4, P34_4	4	HP_R_G
P16_28B, P22_5, P34_5	5	HP_MUTE_H
P16_26A, P22_6, P34_6	6	CH1_VAR(+)
P16_26C, P22_7, P34_7	7	CH1_VAR(-)
P16_26B, P22_8, P34_8	8	CH1_VAR(G)
P16_24A, P22_9, P34_9	9	CH2_VAR(+)
P16_24C, P22_10, P34_10	10	CH2_VAR(-)
P16_24B, P22_11, P34_11	11	CH2_VAR(G)

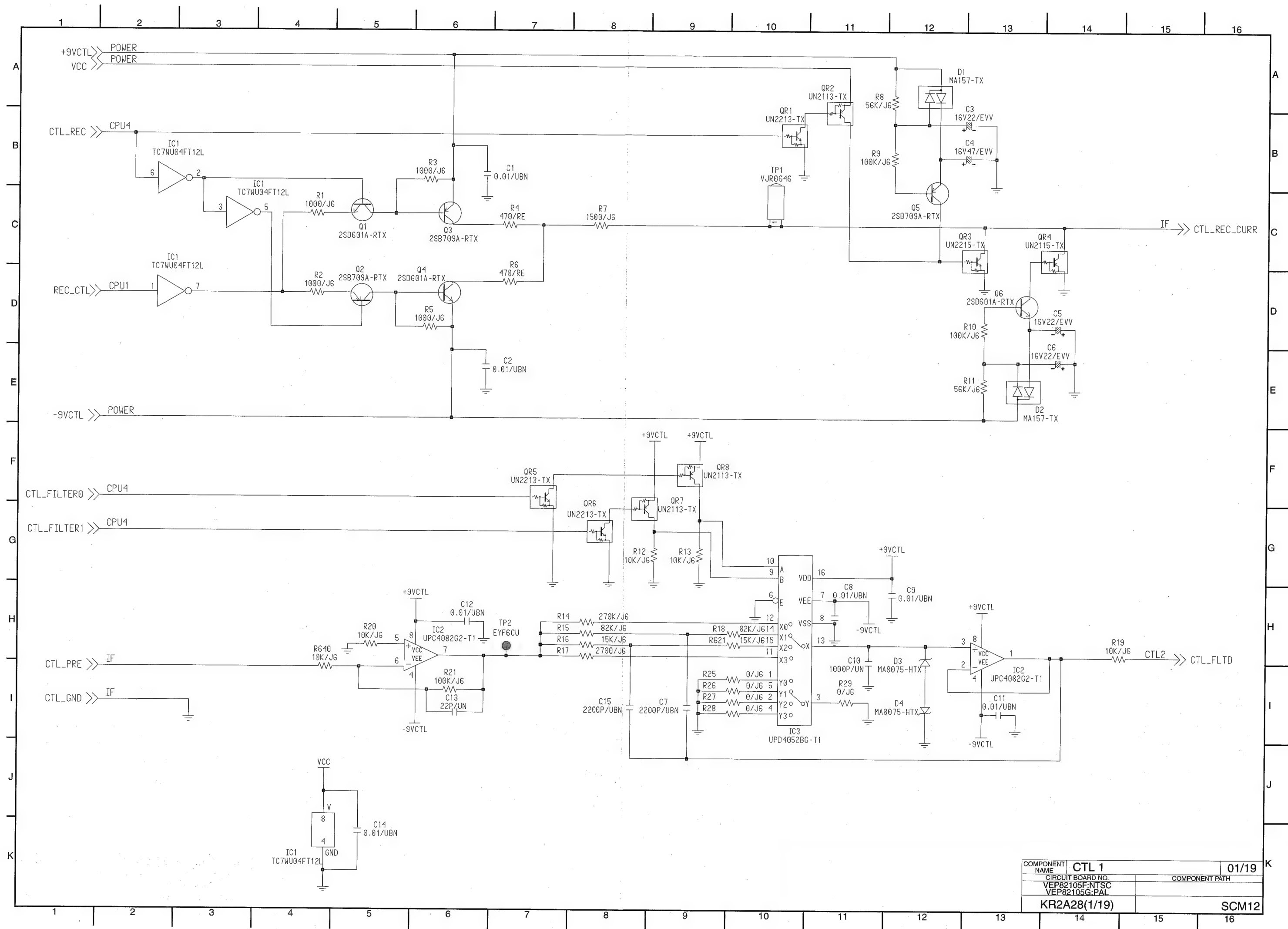
TO AES/EBU

P031 VJP1239T

P13_6A	1	D_IN_DATA12G
P13_6B	2	D_IN_DATA12N
P13_6C	3	D_IN_DATA12P
P13_7A	4	D_IN_DATA34G
P13_7B	5	D_IN_DATA34N
P13_7C	6	D_IN_DATA34P
P13_9A	7	D_OUT_DATA12G
P13_9B	8	D_OUT_DATA12N
P13_9C	9	D_OUT_DATA12P
P13_10A	10	D_OUT_DATA34G
P13_10B	11	D_OUT_DATA34N
P13_10C	12	D_OUT_DATA34P

COMPONENT NAME	MOTHER CIRCUIT	11/11
CIRCUIT BOARD NO.	VEP80A11A	COMPONENT PATH
	KR0F01(11/11)	SCM11

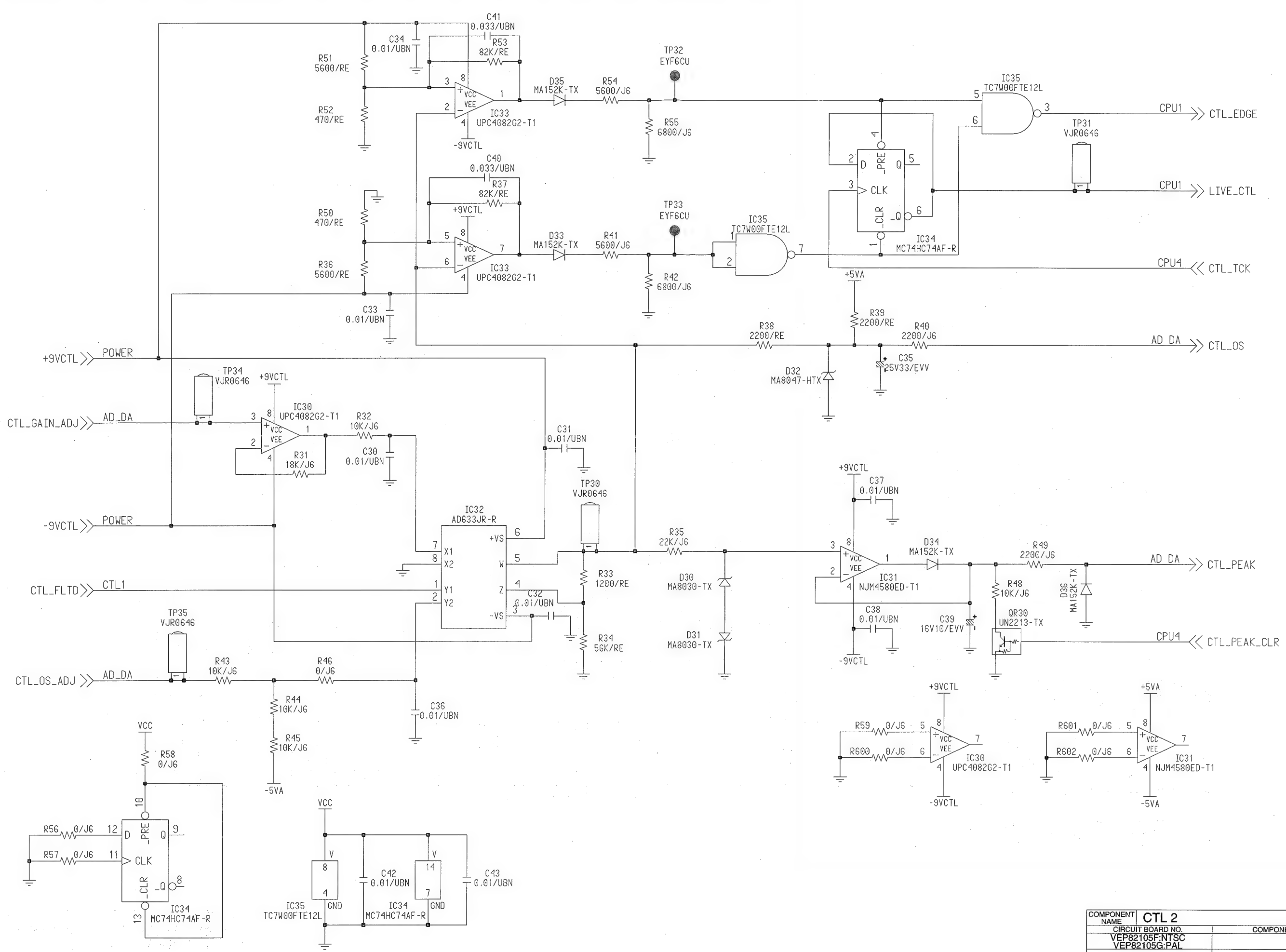
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16



1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16

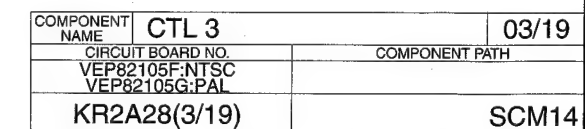
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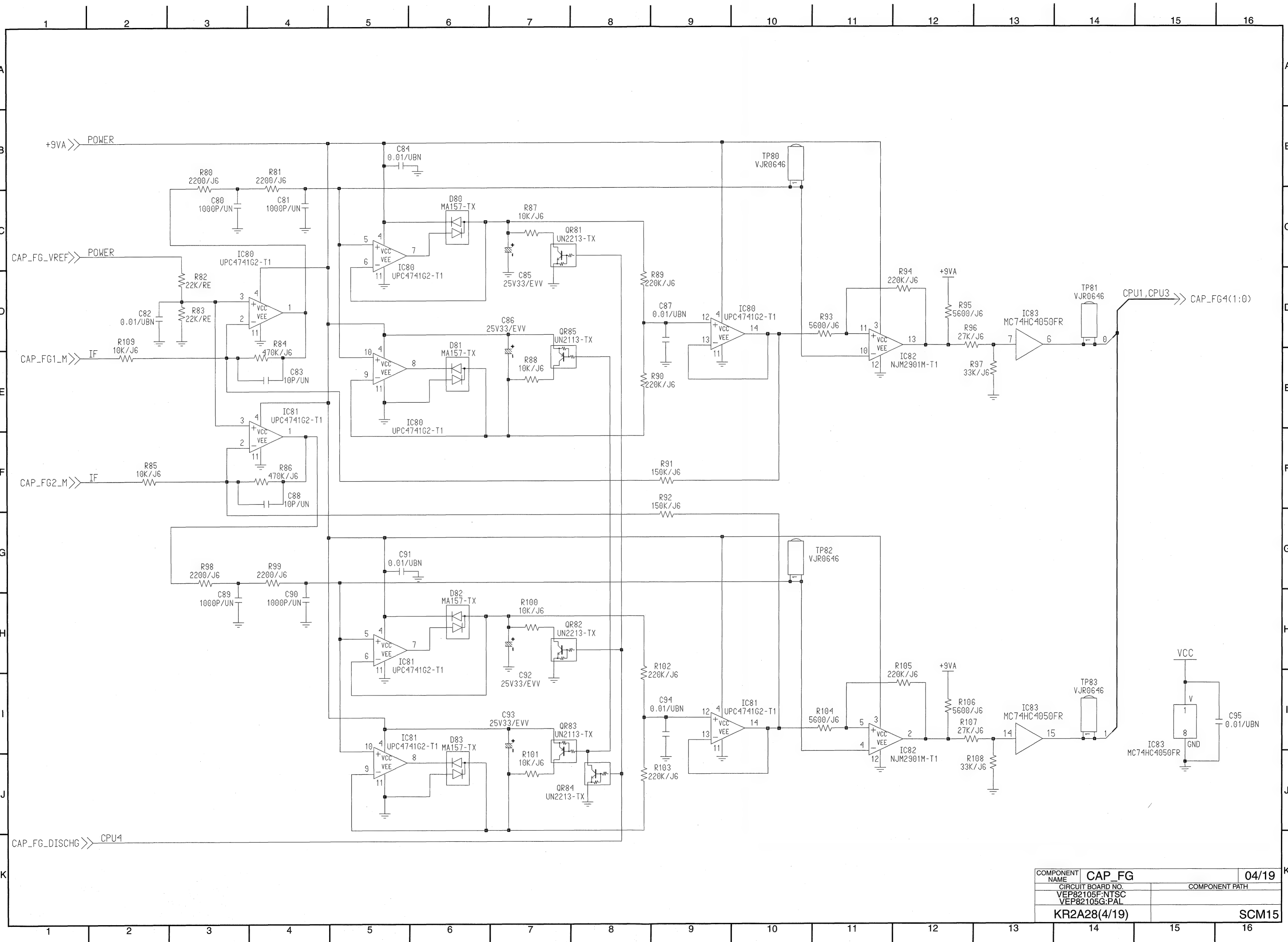
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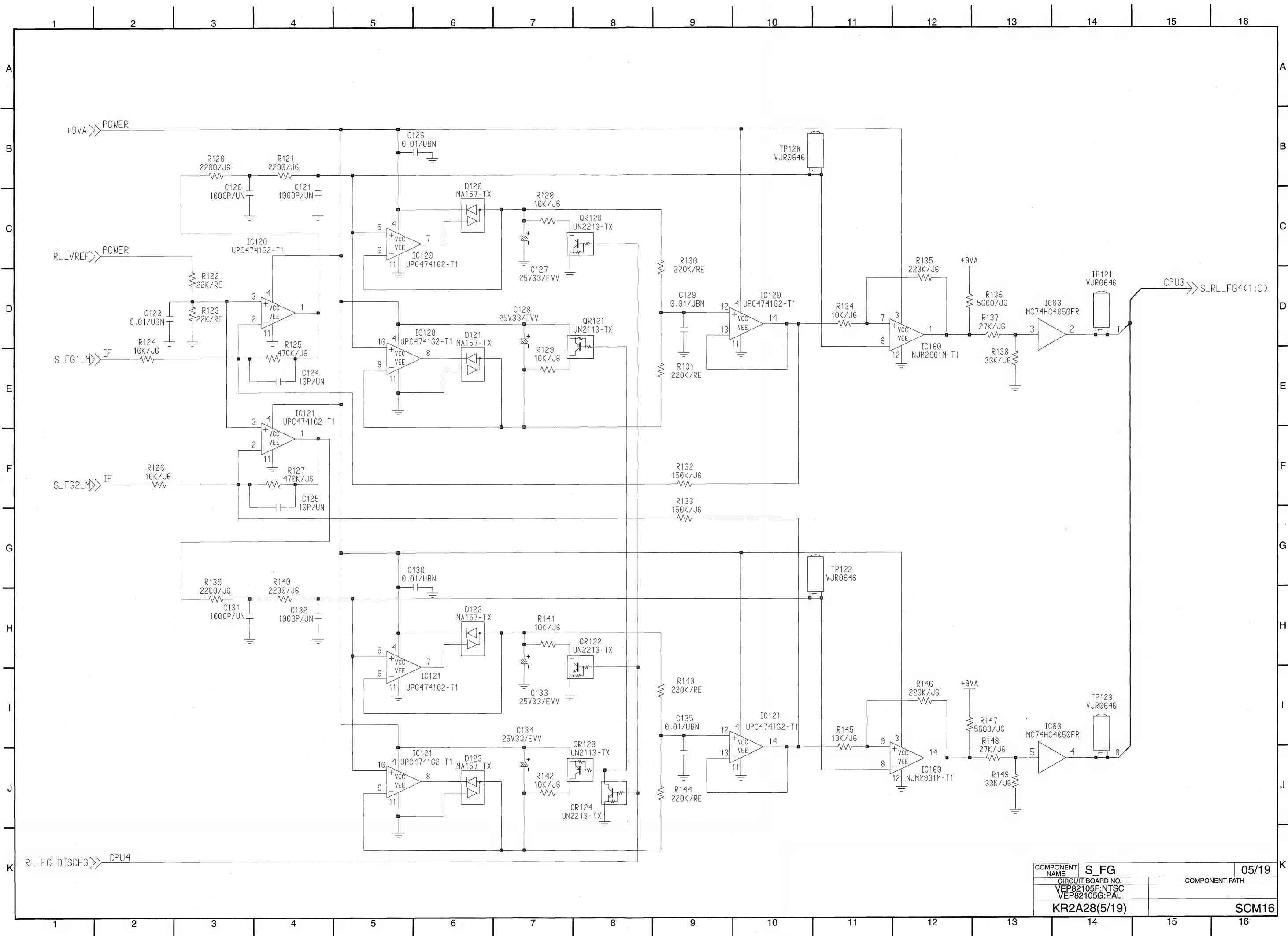
COMPONENT NAME	CTL 2	02/19
CIRCUIT BOARD NO.	VEP82105F-NTSC	COMPONENT PATH
	VEP82105G-PAL	
	KR2A28(2/19)	SCM13

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16

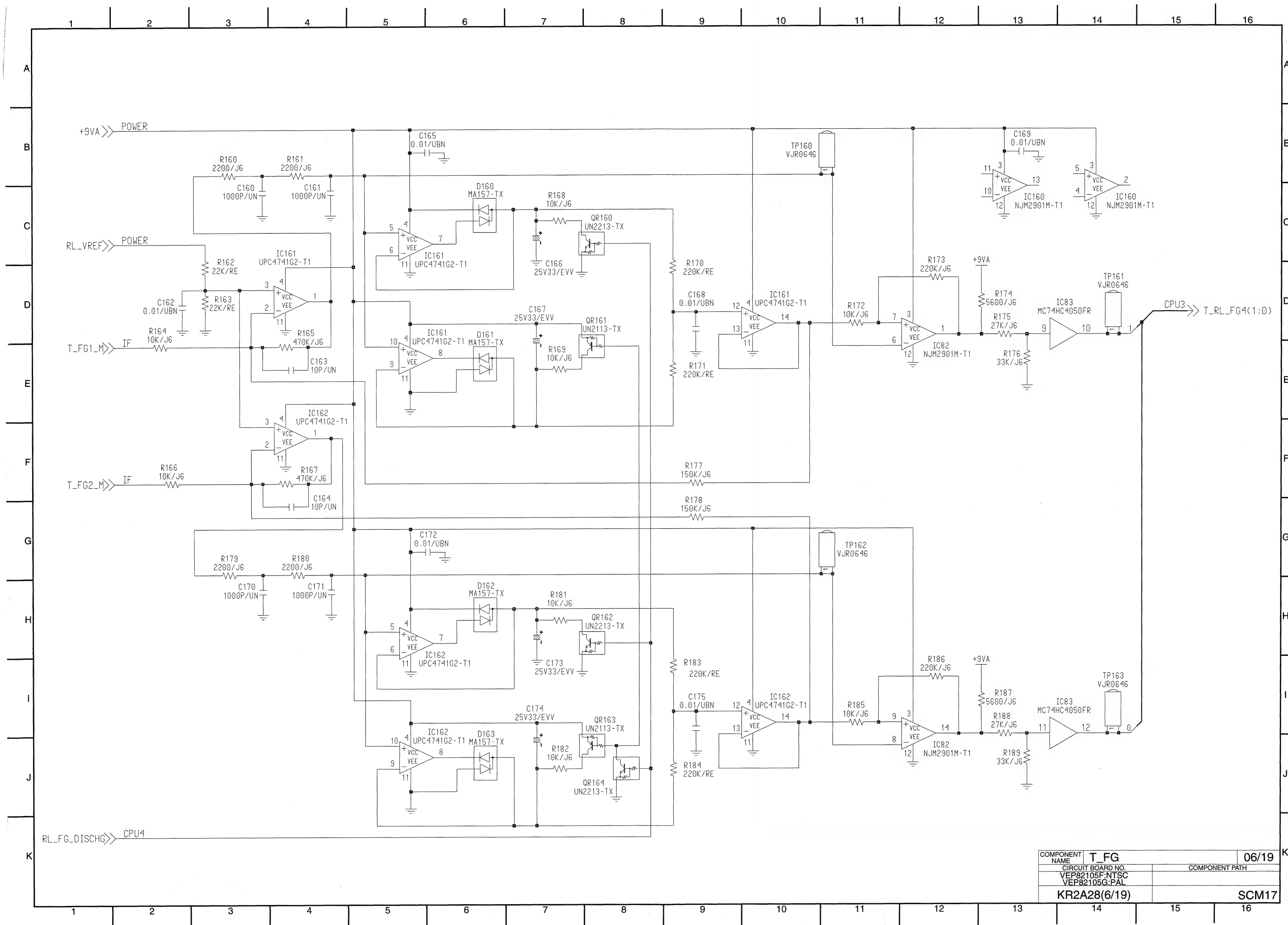




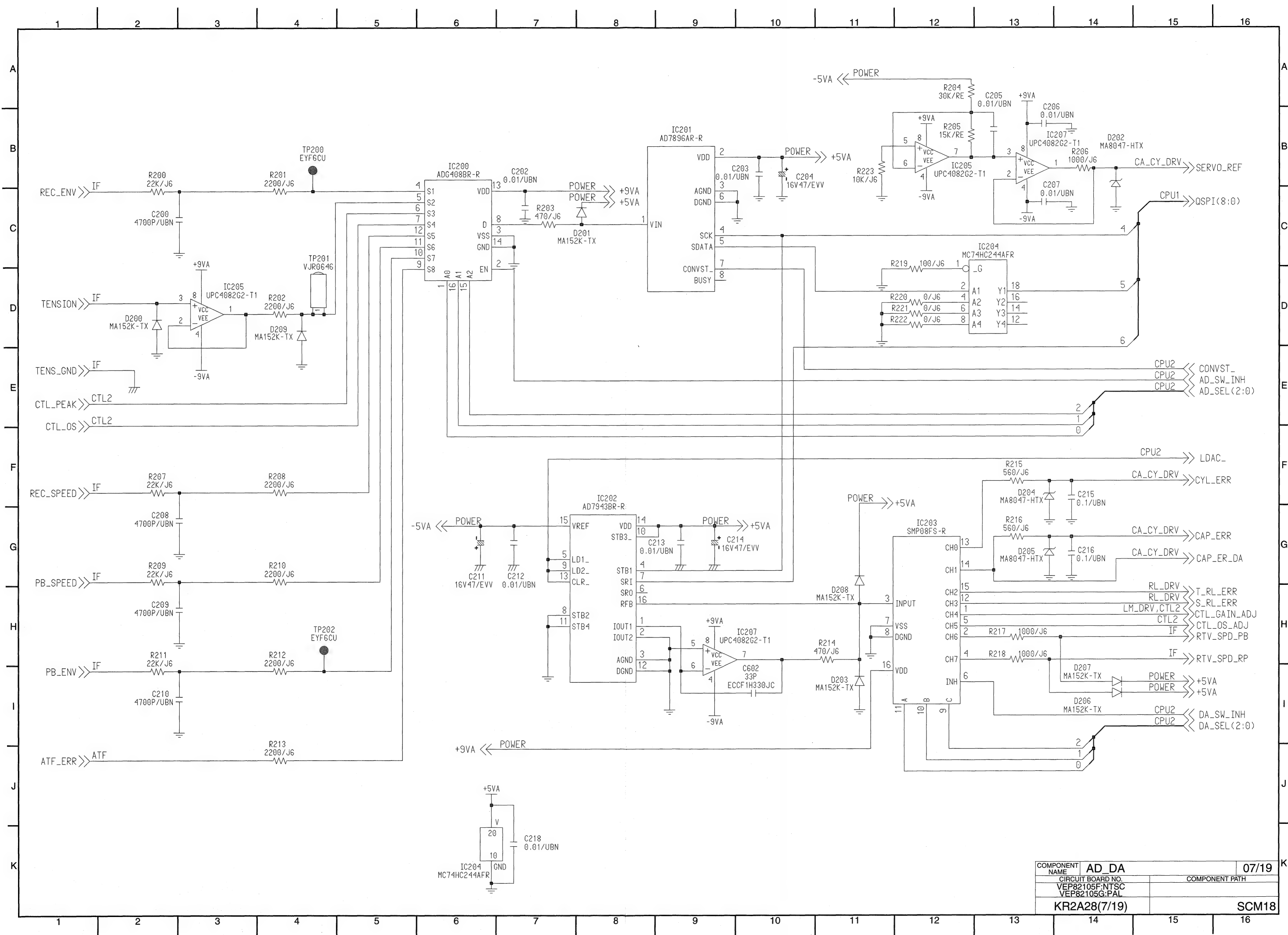
COMPONENT NAME	CAP_FG	04/19
CIRCUIT BOARD NO.	VEP82105F:NTSC	COMPONENT PATH
	VEP82105G:PAL	
KR2A28(4/19)		SCM15

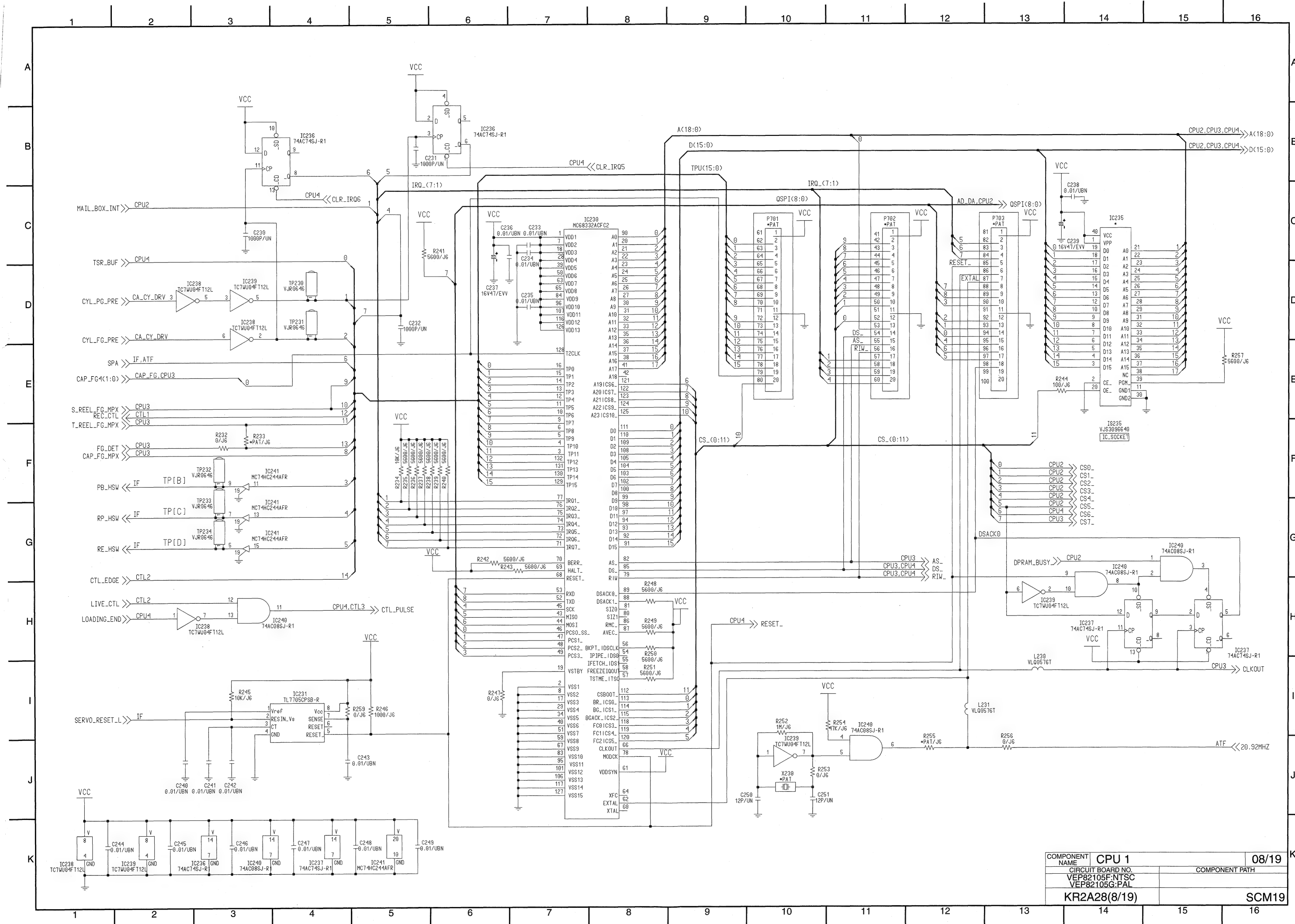


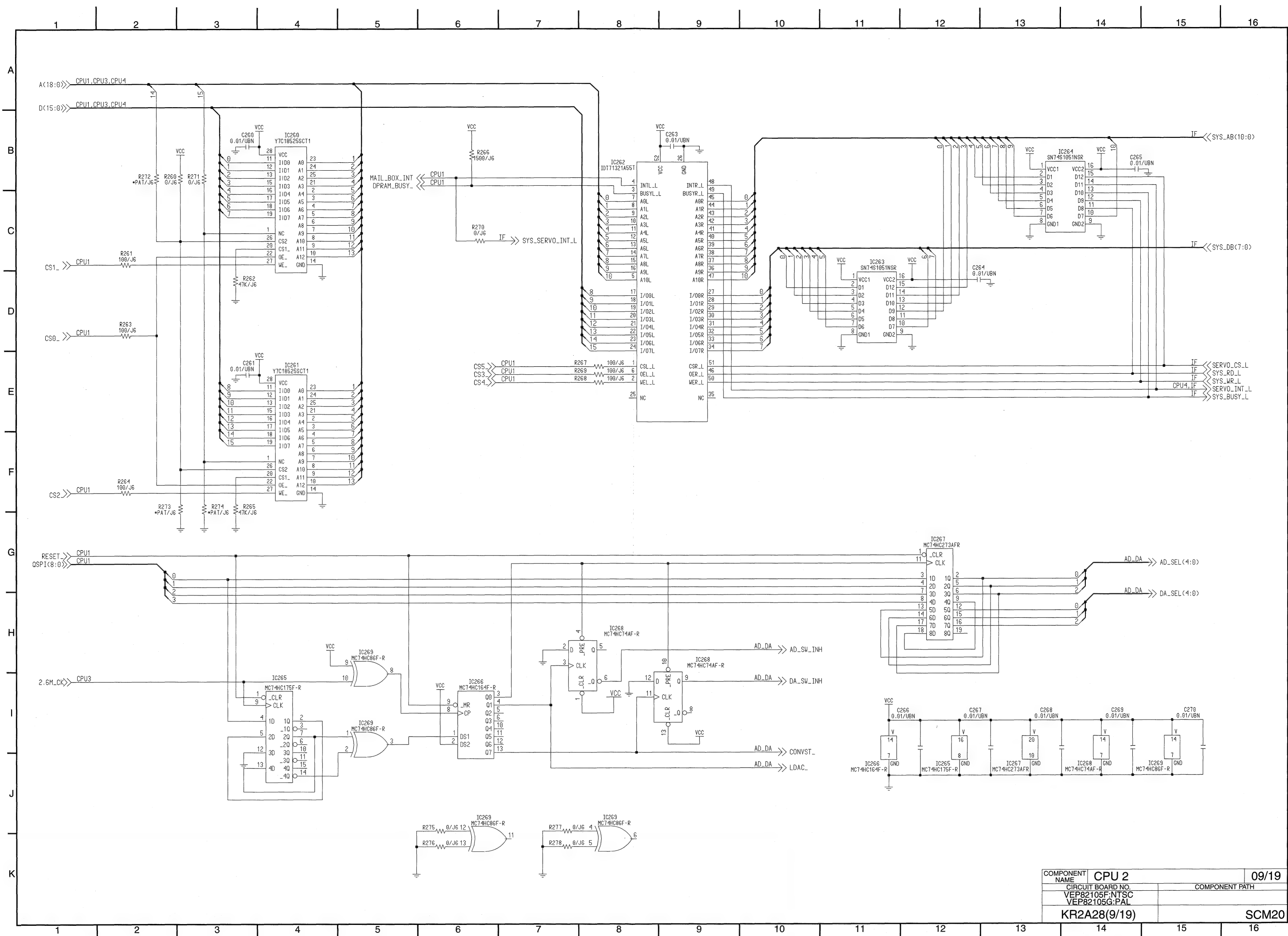
COMPONENT NAME	S_FG	05/19
CIRCUIT BOARD NO.	VEP82105F:NTSC	COMPONENT PATH
	VEP82105G:PAL	
KR2A28(5/19)		SCM16



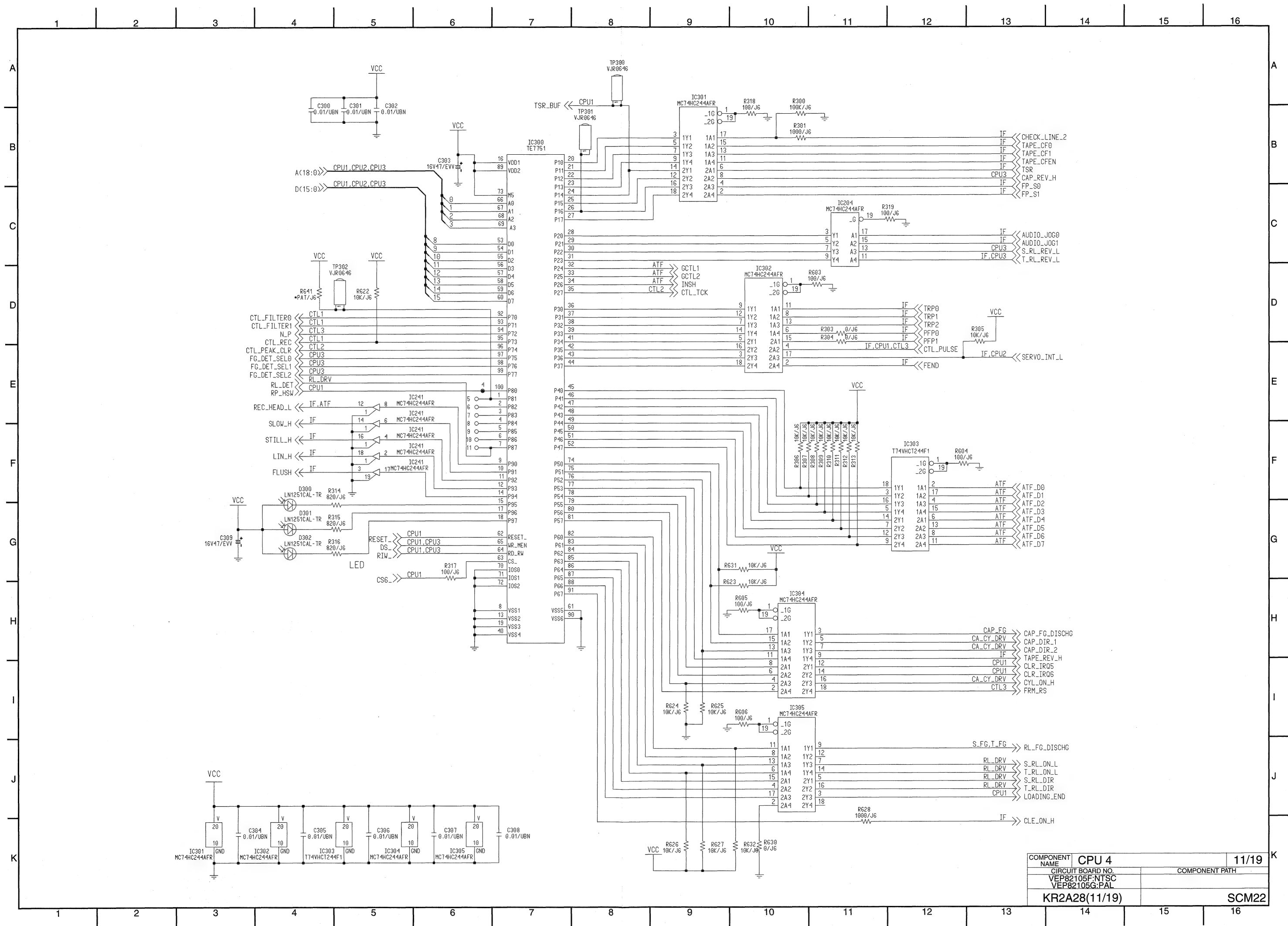
COMPONENT NAME	T_FG	06/19
CIRCUIT BOARD NO.	VEP82105F-NTSC	COMPONENT PATH
	VEP82105G-PAL	
	KR2A28(6/19)	SCM17

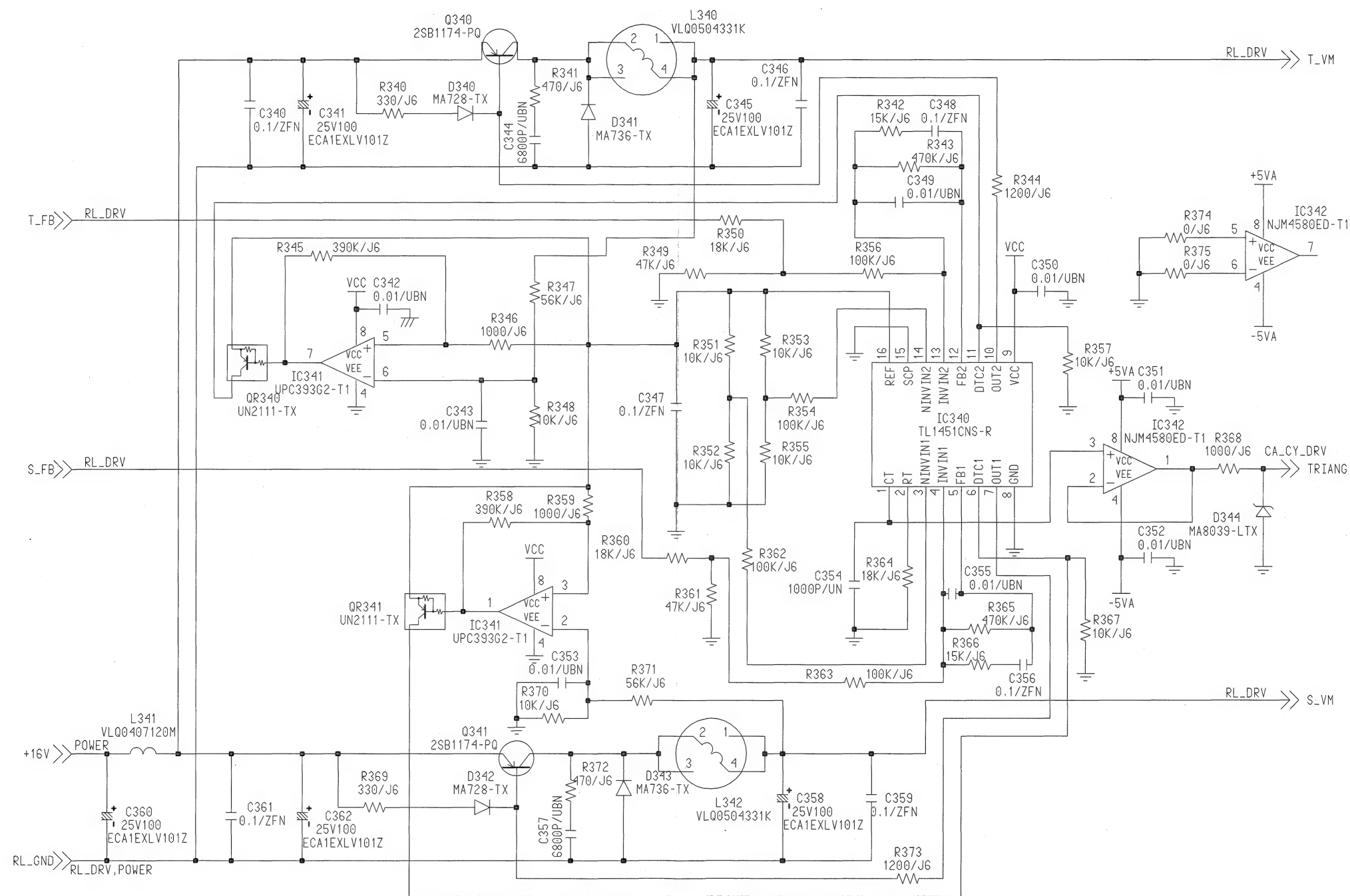






COMPONENT NAME	CPU 2	09/19
CIRCUIT BOARD NO.	VEP82105F/NTSC	COMPONENT PATH
	VEP82105G/PAL	
	KR2A28(9/19)	SCM20



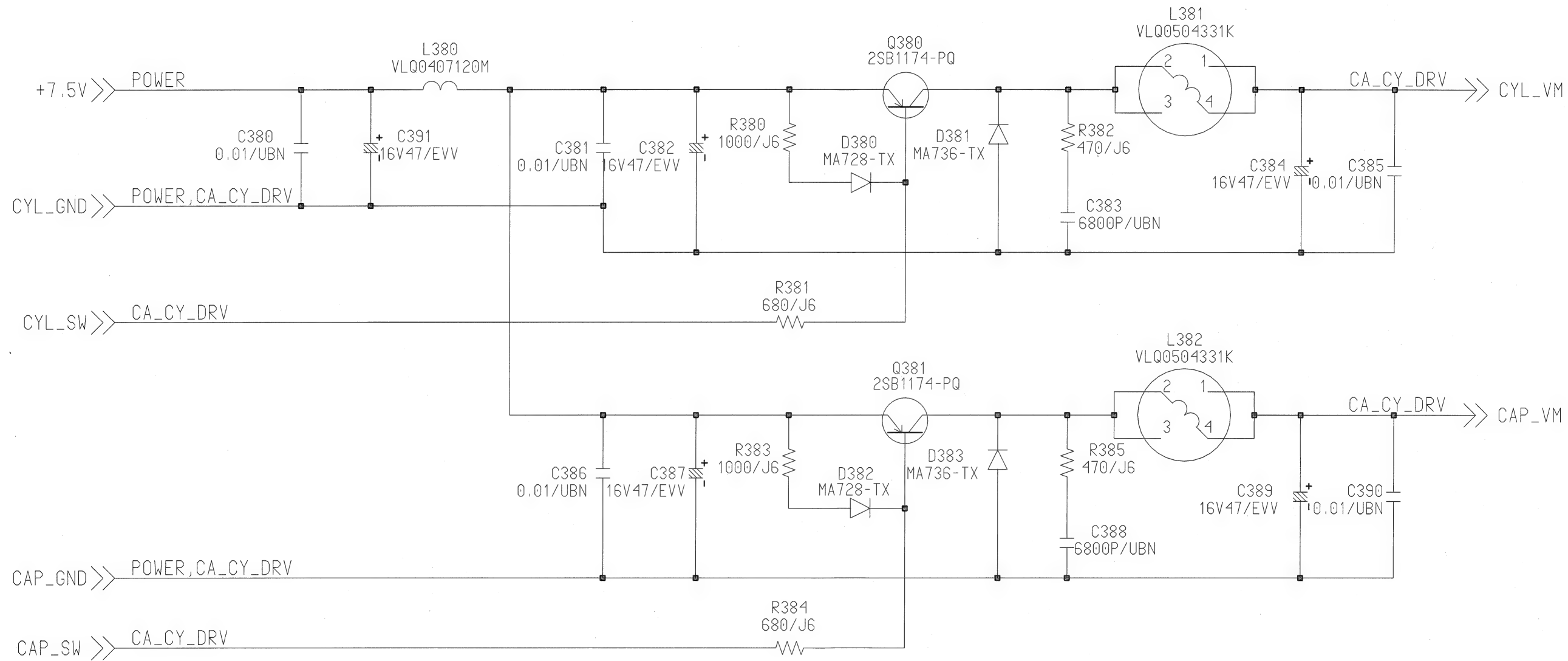


COMPONENT NAME	SW 1	13/19
CIRCUIT BOARD NO.	VEP82105F:NTSC	COMPONENT PATH
	VEP82105G:PAL	
KR2A28(13/19)		SCM24

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16

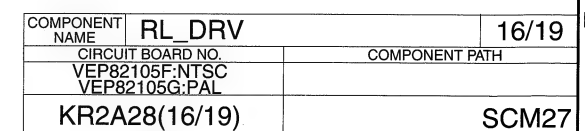
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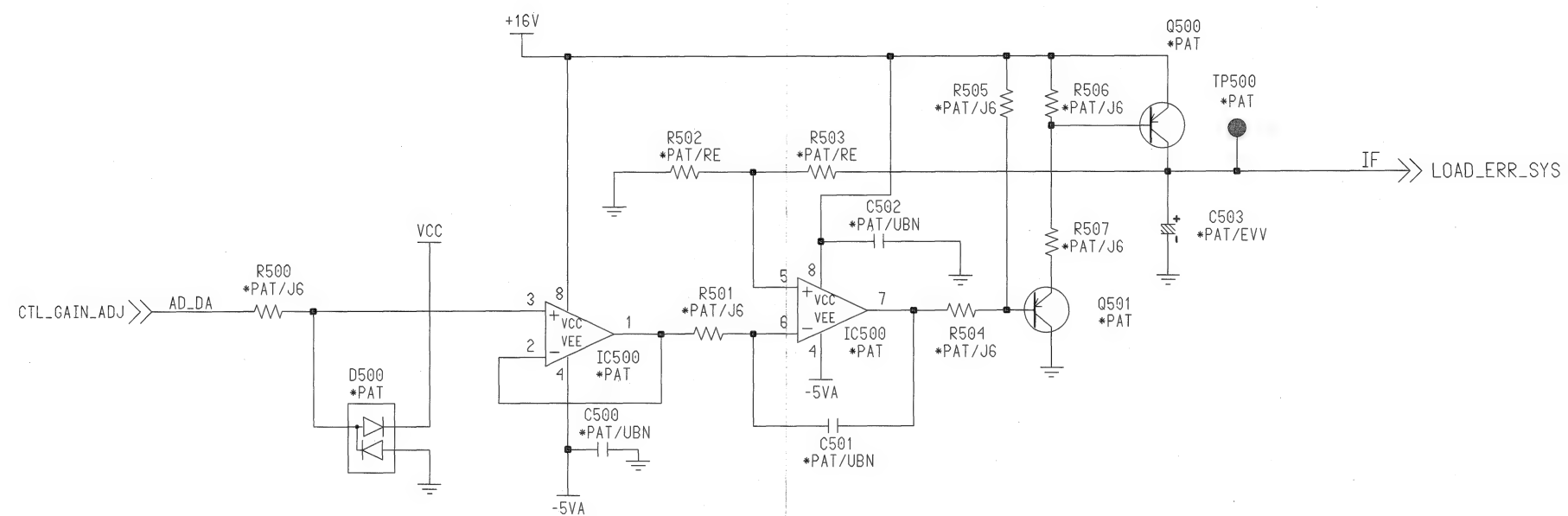
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COMPONENT NAME	SW 2	14/19
CIRCUIT BOARD NO.	VEP82105F:NTSC	COMPONENT PATH
	VEP82105G:PAL	
KR2A28(14/19)		SCM25

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16

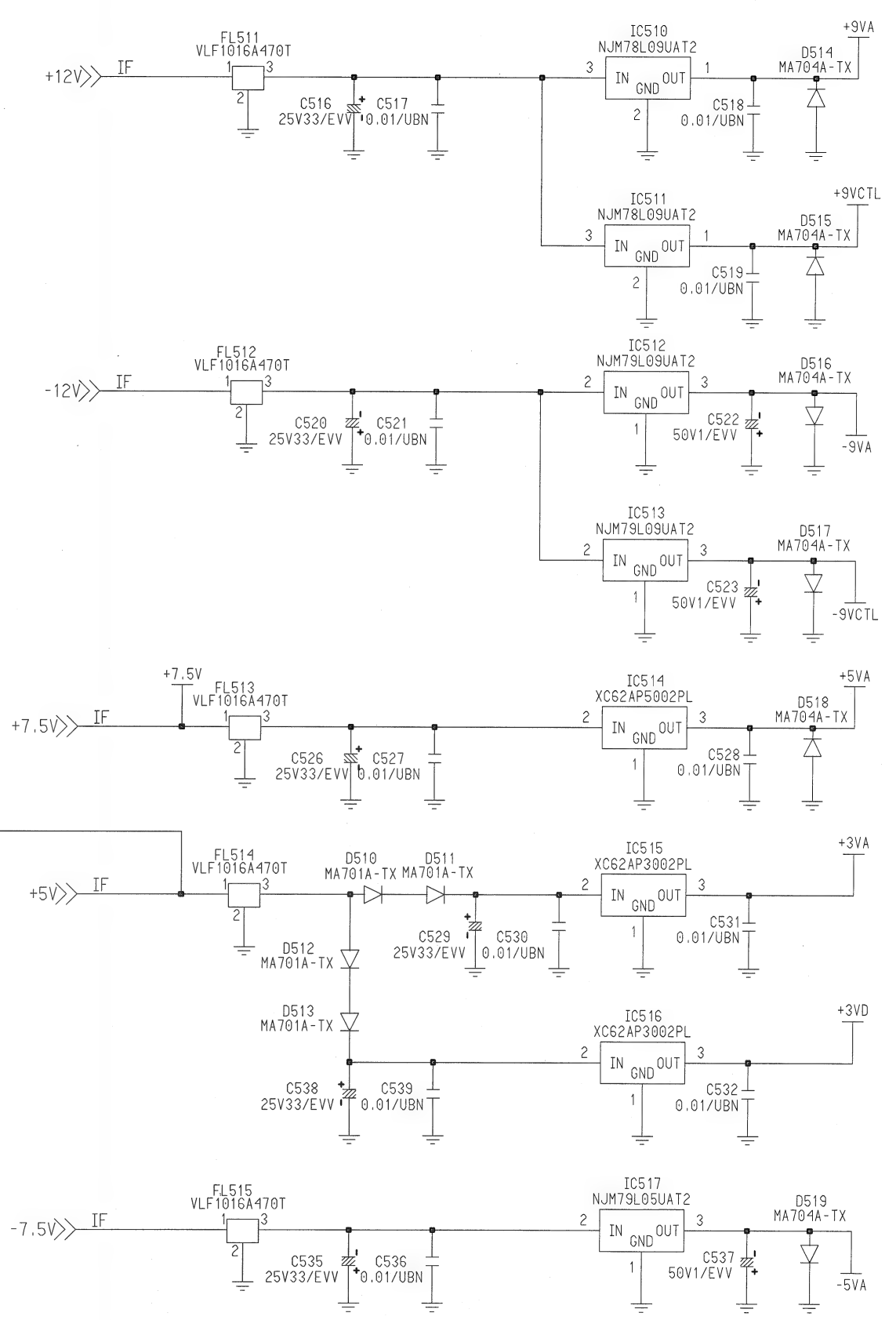
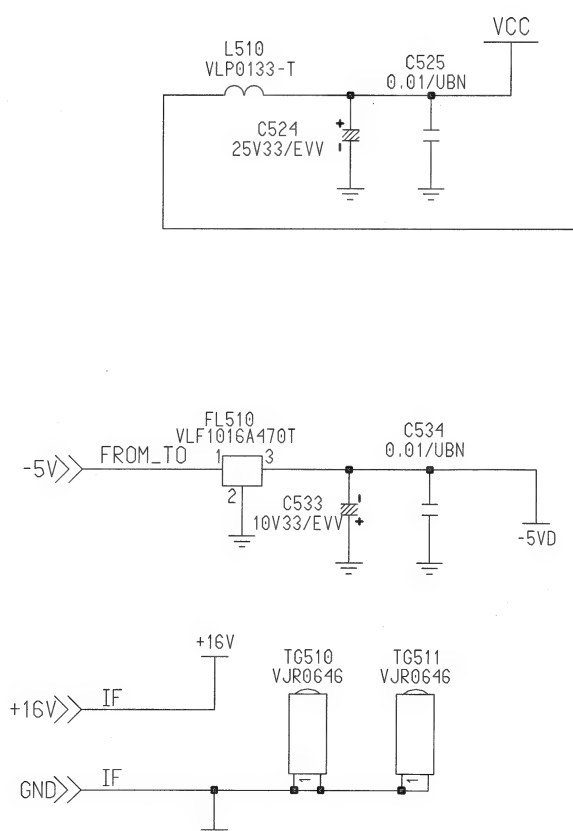
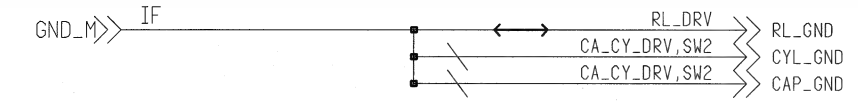
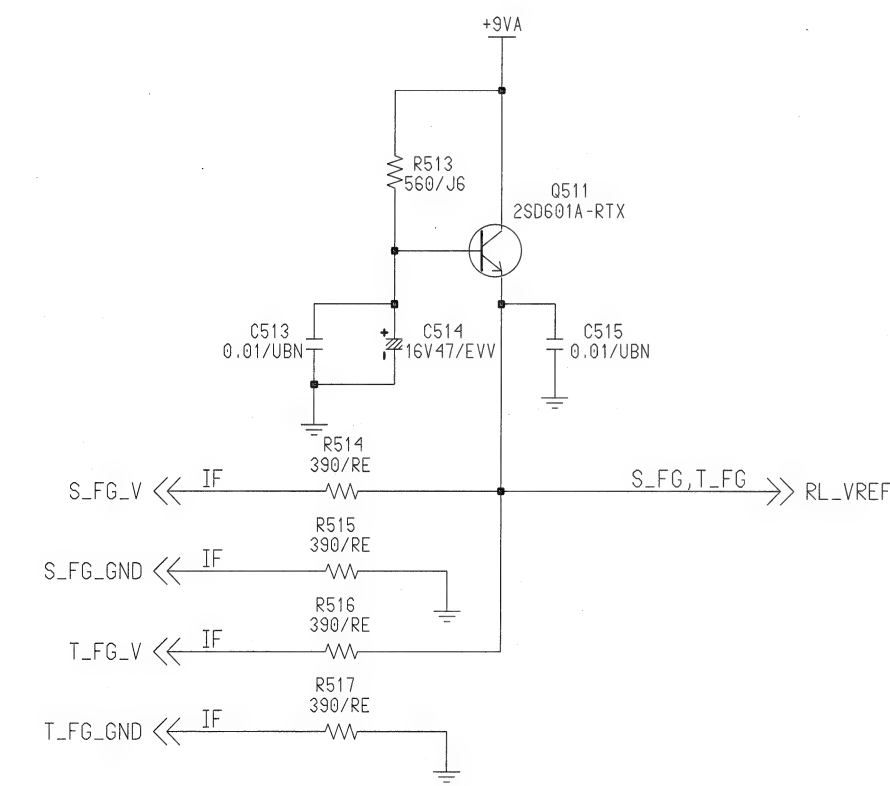
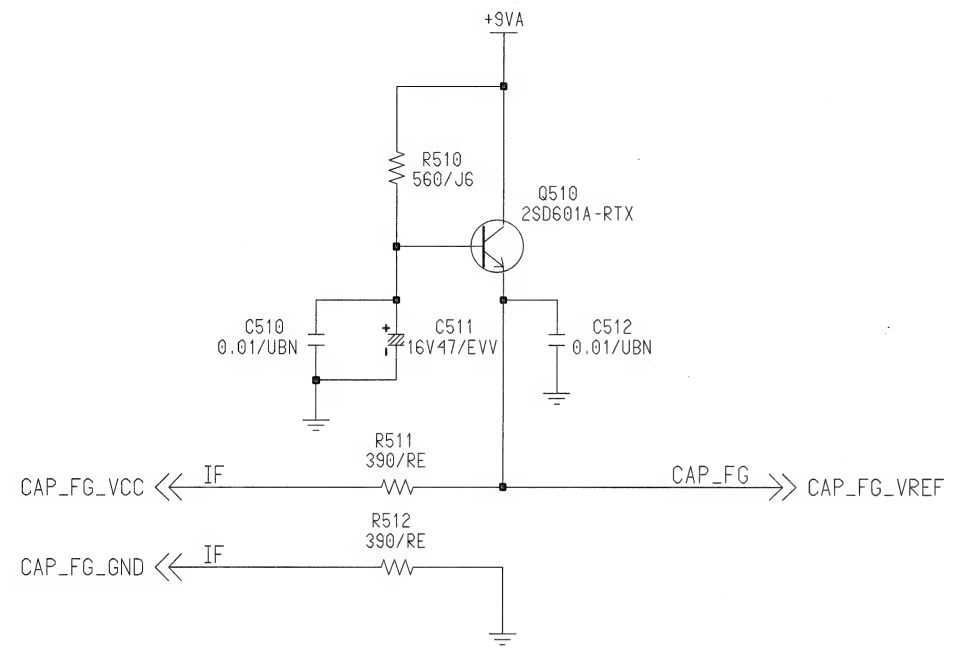




COMPONENT NAME	LM_DRV	17/19
CIRCUIT BOARD NO.	VEP82105F:NTSC	COMPONENT PATH
	VEP82105G:PAL	
KR2A28(17/19)		SCM28

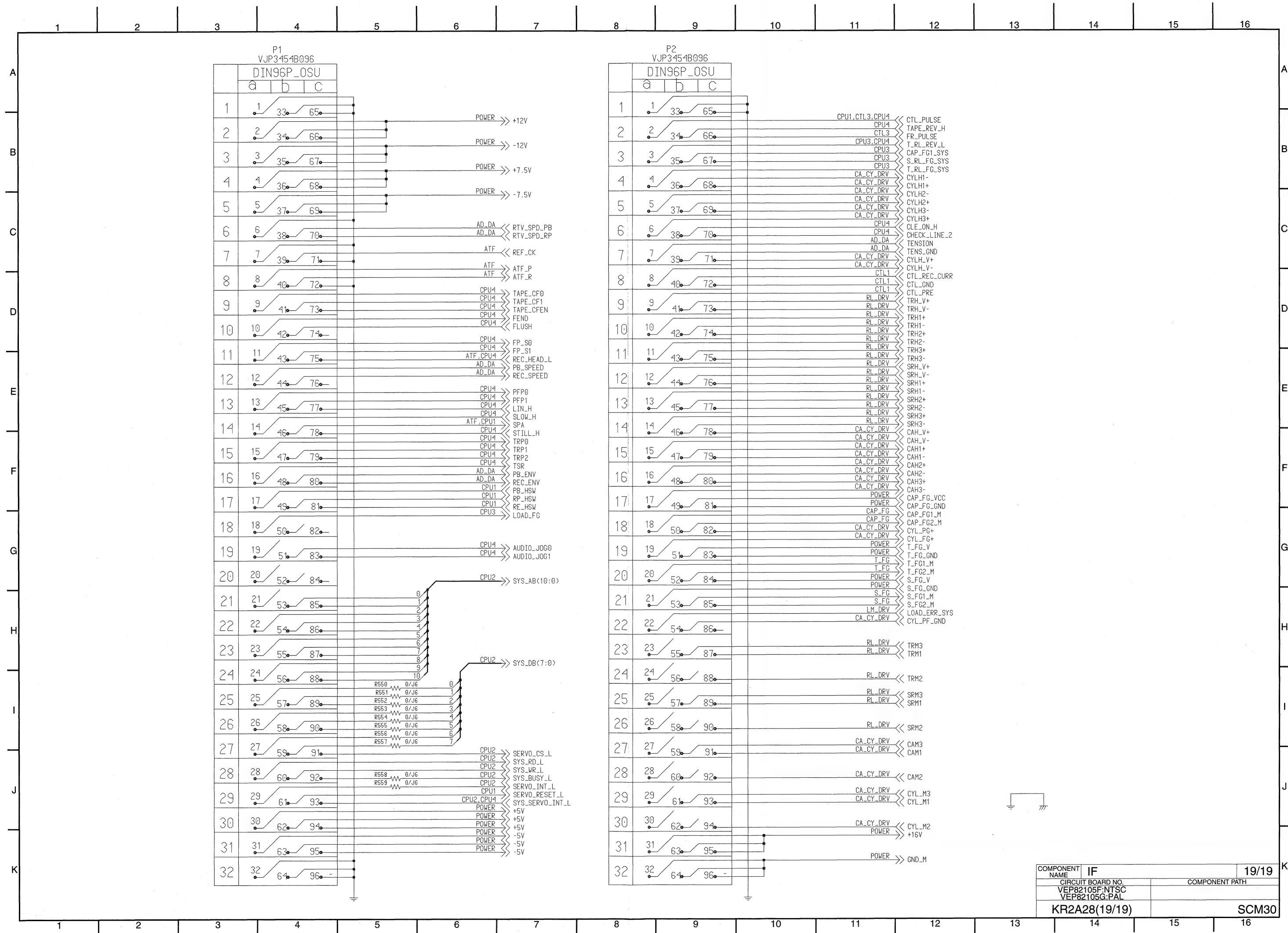
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16

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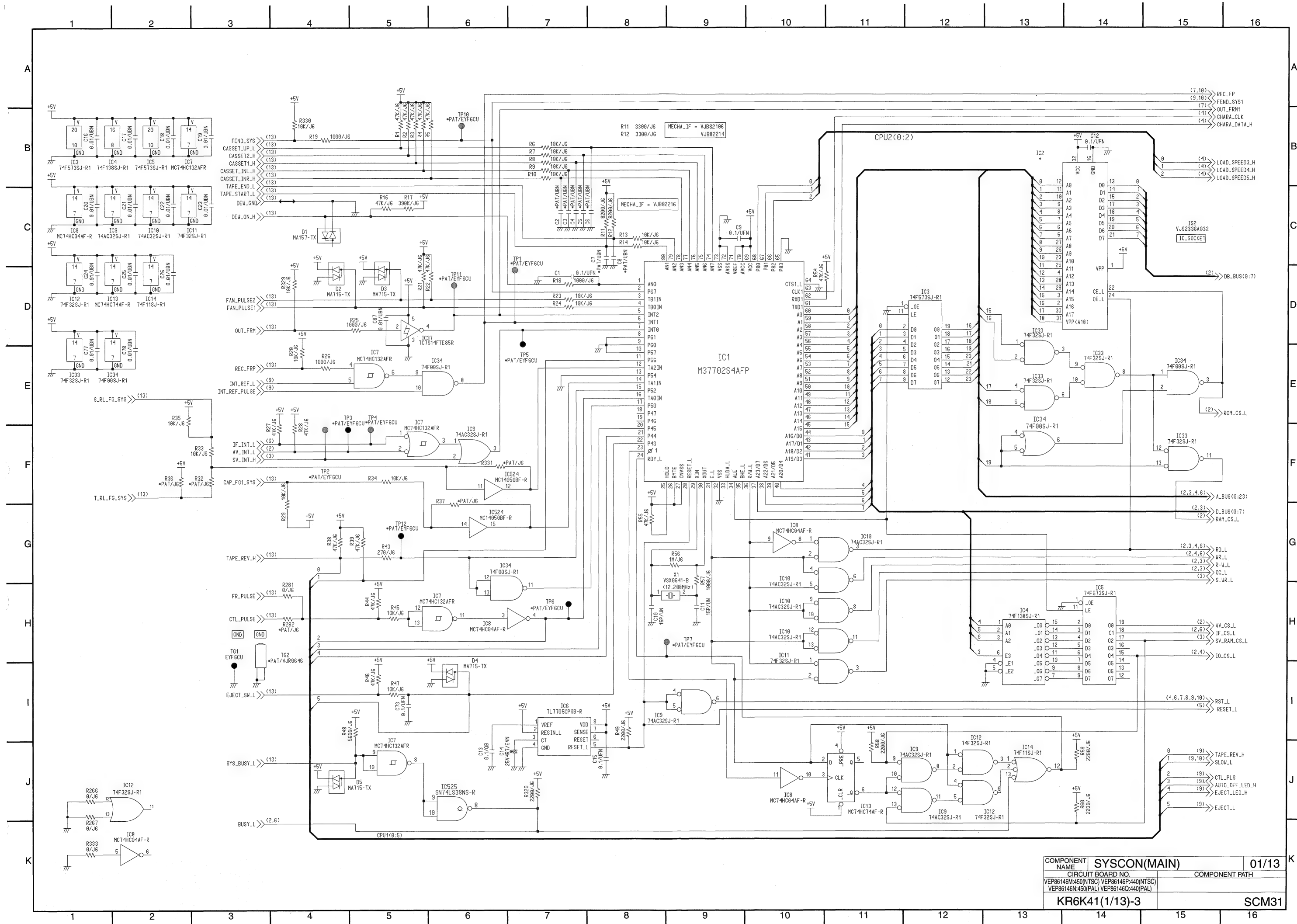


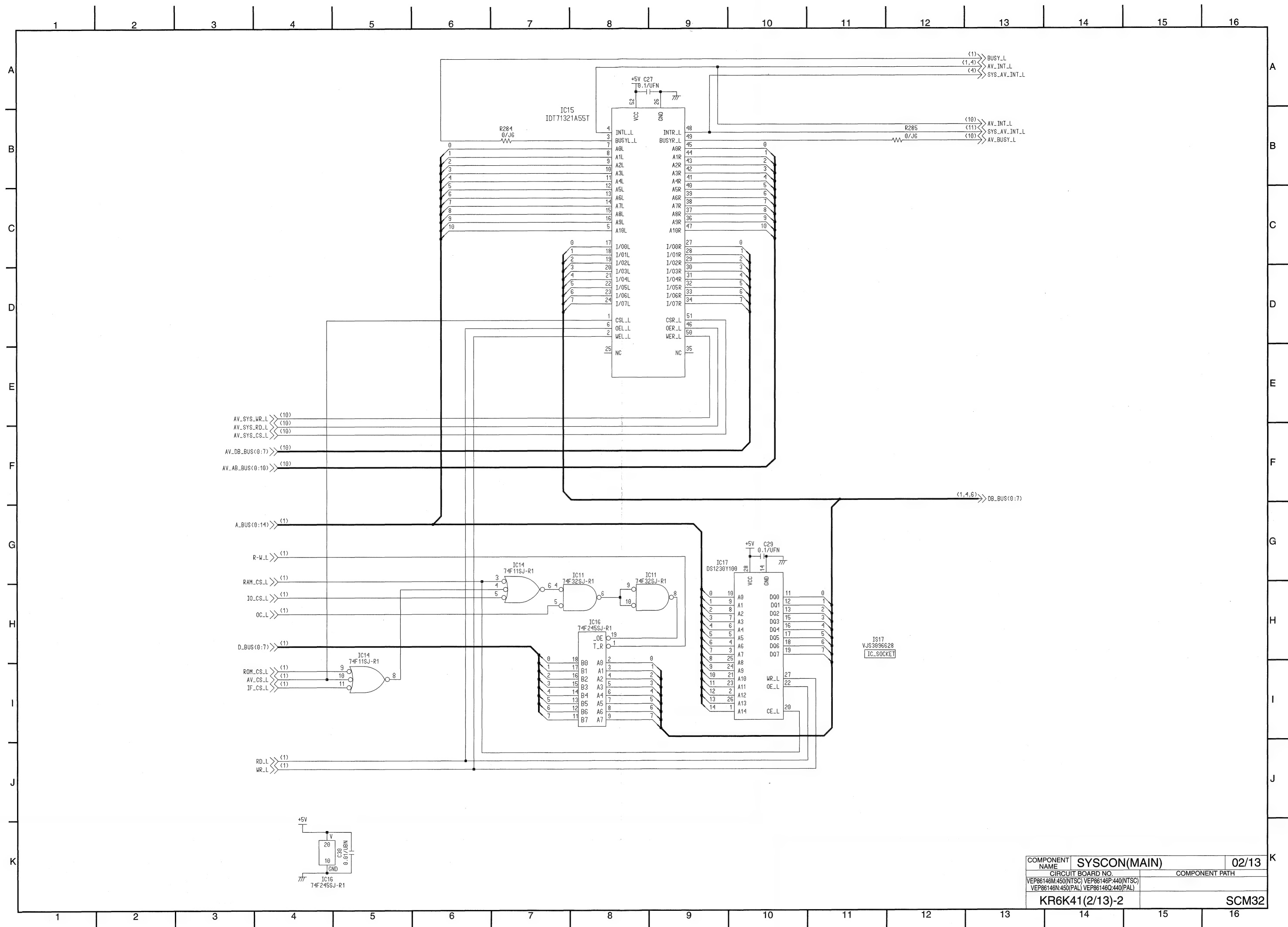
COMPONENT NAME	POWER	18/19
CIRCUIT BOARD NO.	VEP82105F:NTSC	COMPONENT PATH
	VEP82105G:PAL	
KR2A28(18/19)		SCM29

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16

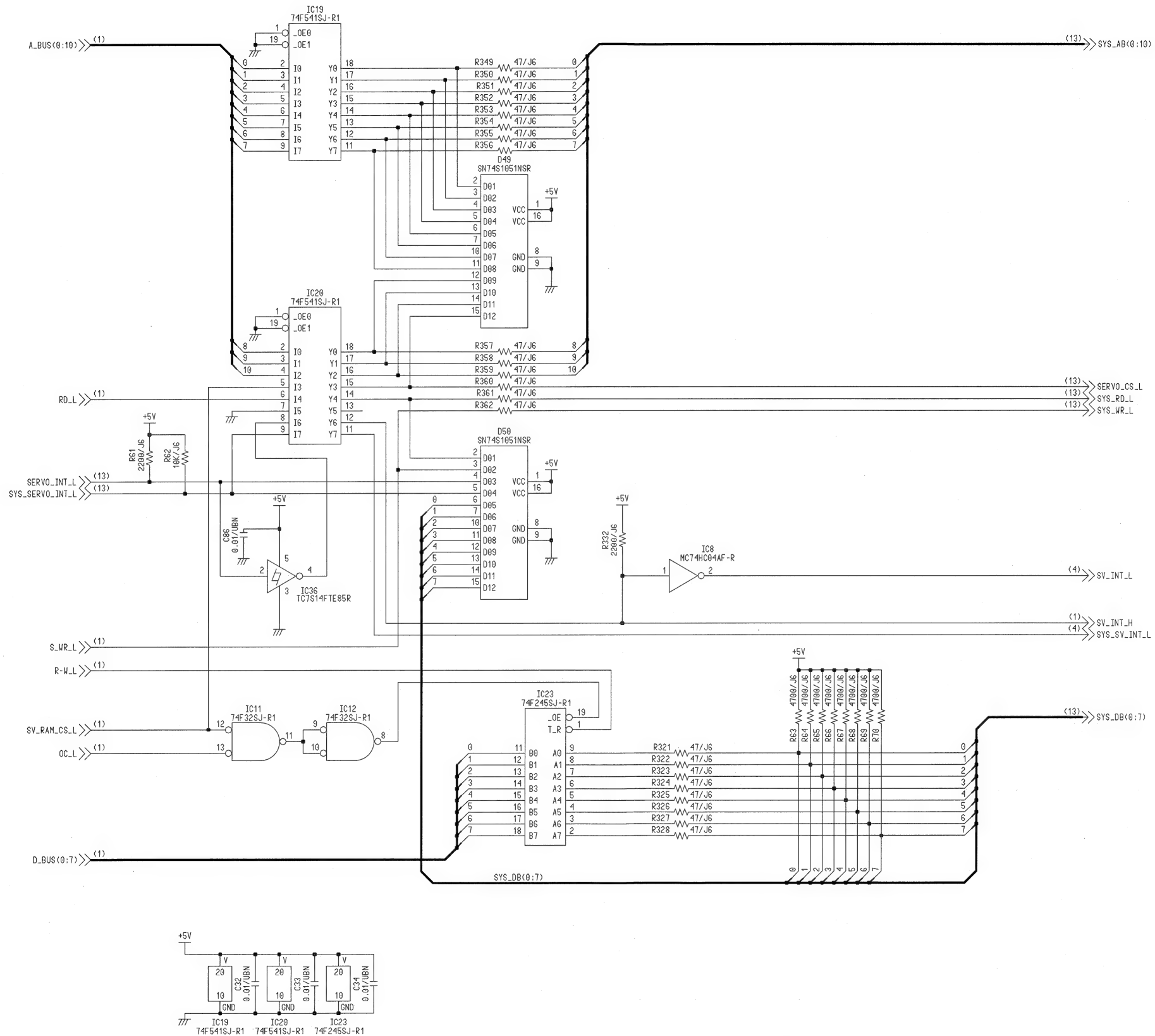


COMPONENT NAME	IF	19/19
CIRCUIT BOARD NO.		COMPONENT PATH
VEP82105F:NTSC		
VEP82105G:PAL		
KR2A28(19/19)		SCM30

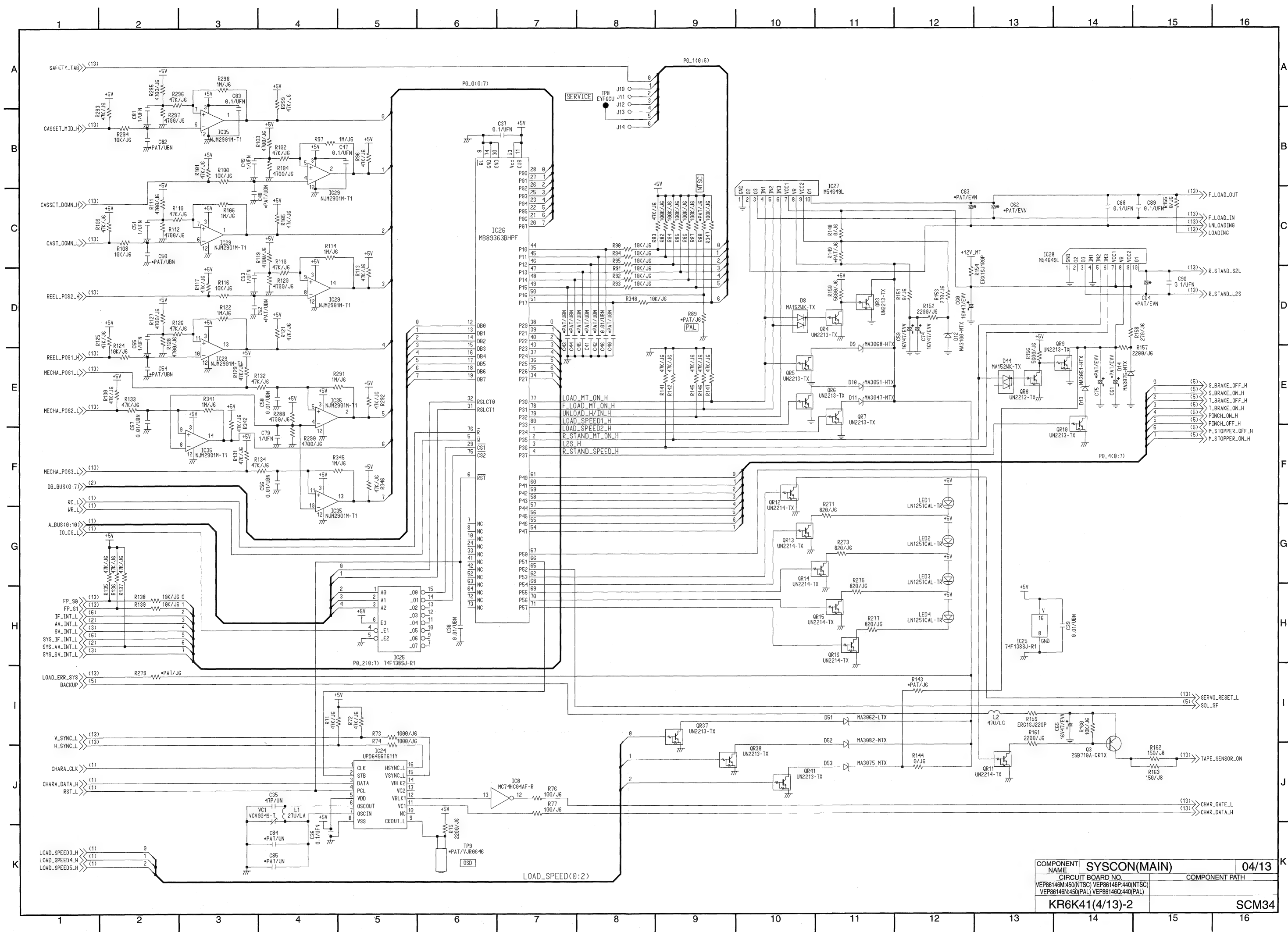


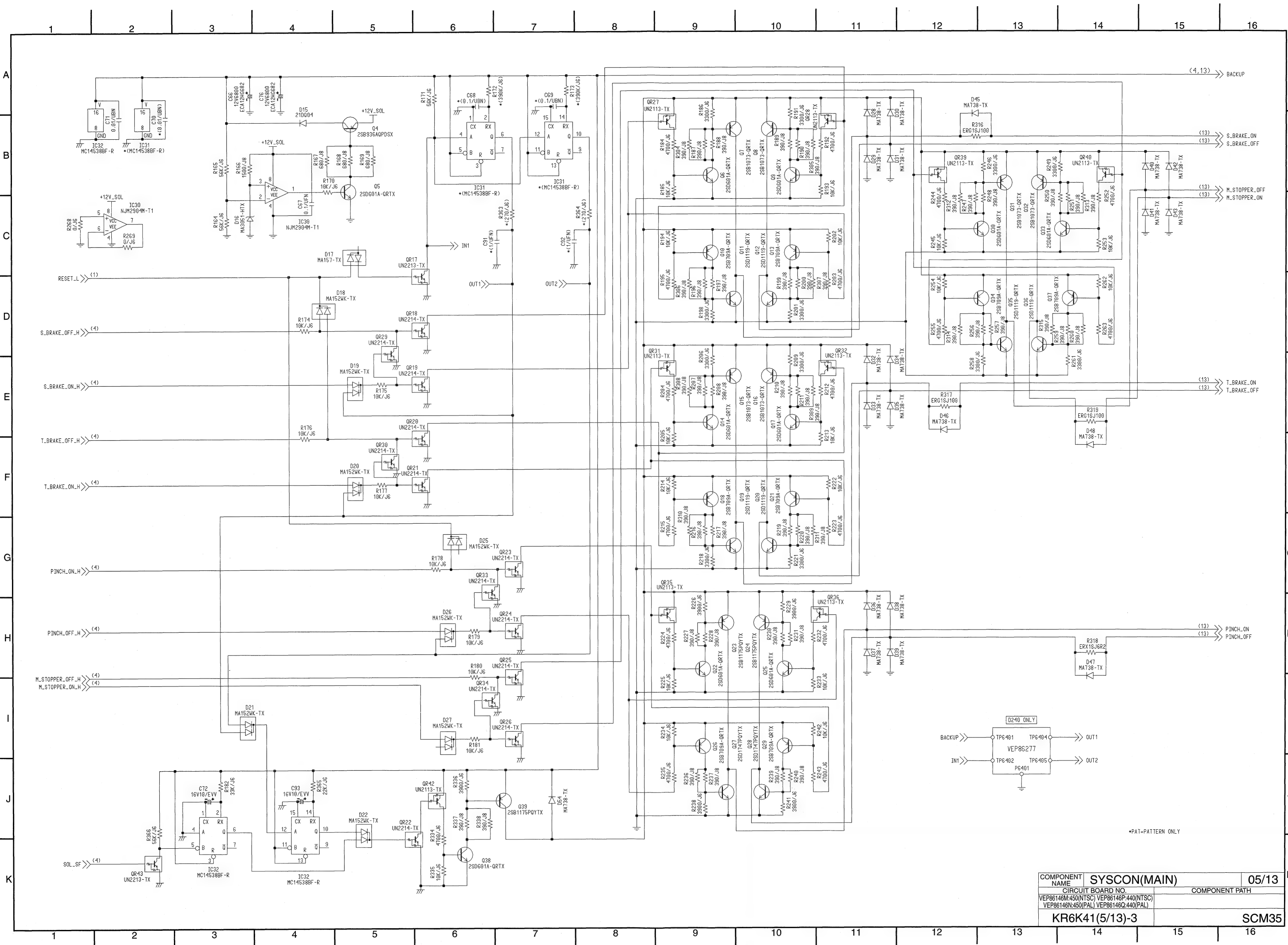


COMPONENT NAME	SYSCON(MAIN)	02/13
CIRCUIT BOARD NO.	COMPONENT PATH	
VEP86146M:450(NTSC)	VEP86146P:440(NTSC)	
VEP86146N:450(PAL)	VEP86146Q:440(PAL)	
KR6K41(2/13)-2	SCM32	

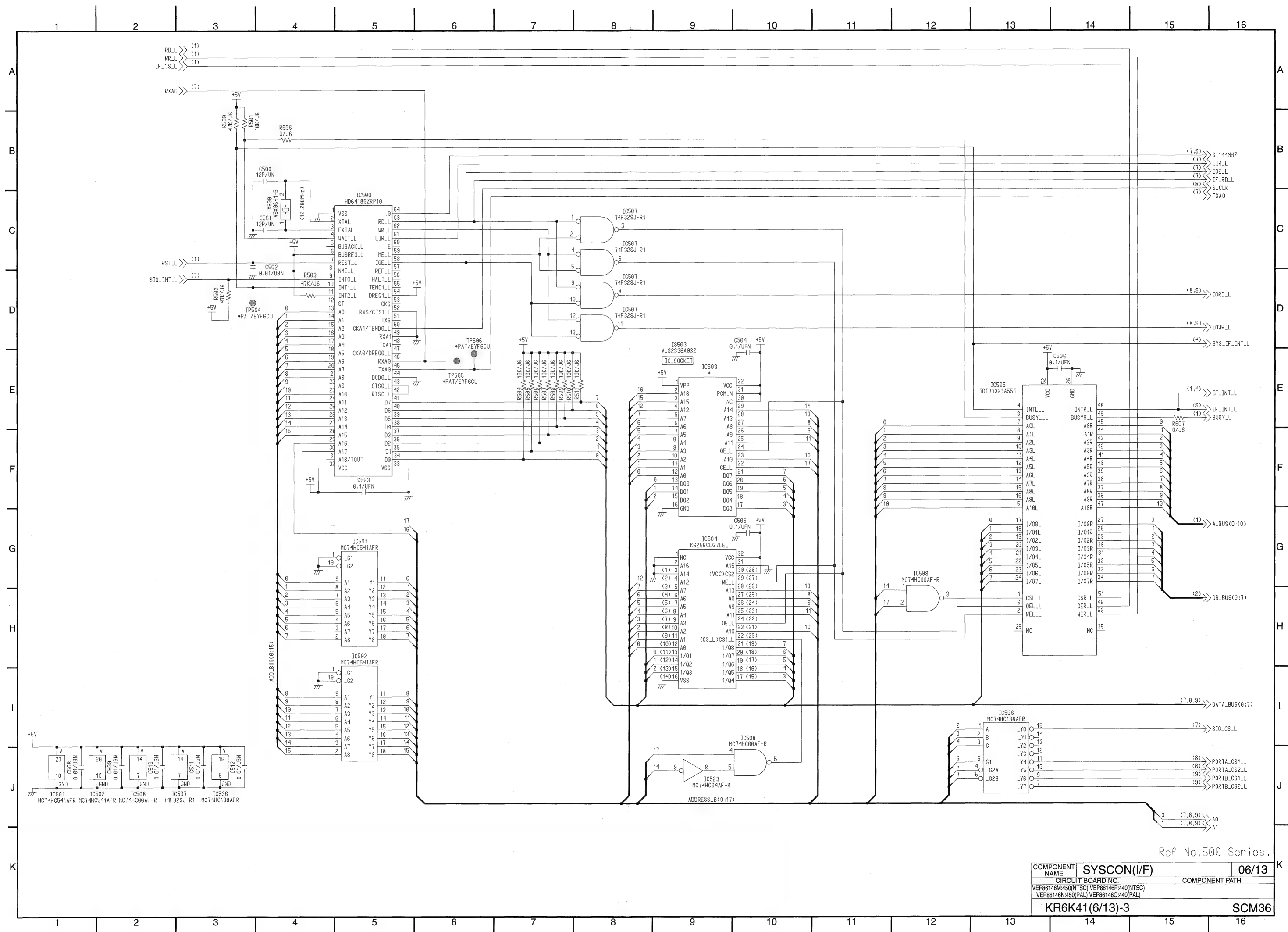


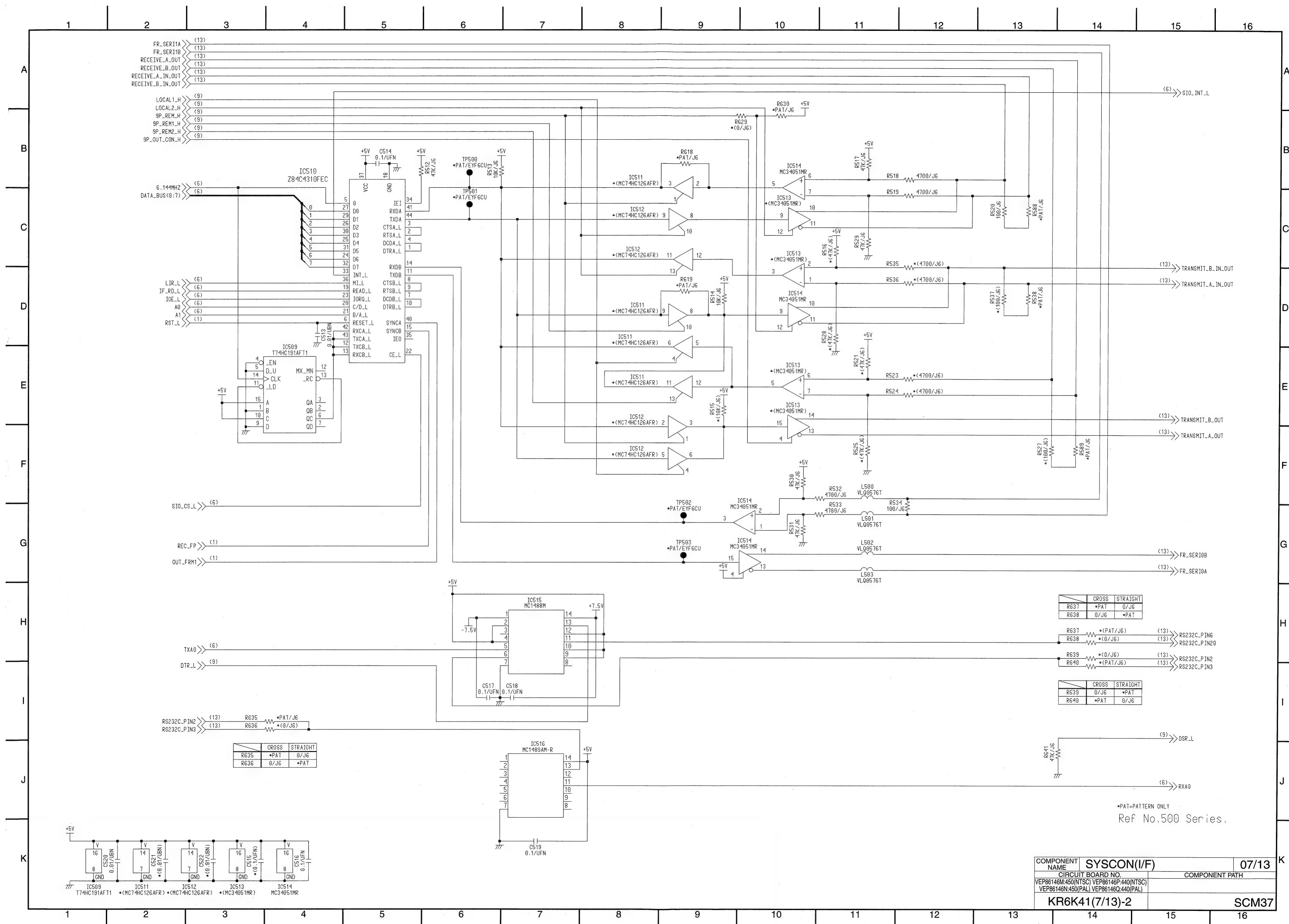
COMPONENT NAME	SYSCON(MAIN)	03/13
CIRCUIT BOARD NO.	VEP86146M-450(NTSC) VEP86146P-440(NTSC)	COMPONENT PATH
	VEP86146N-450(PAL) VEP86146Q-440(PAL)	
KR6K41(3/13)-2		SCM33

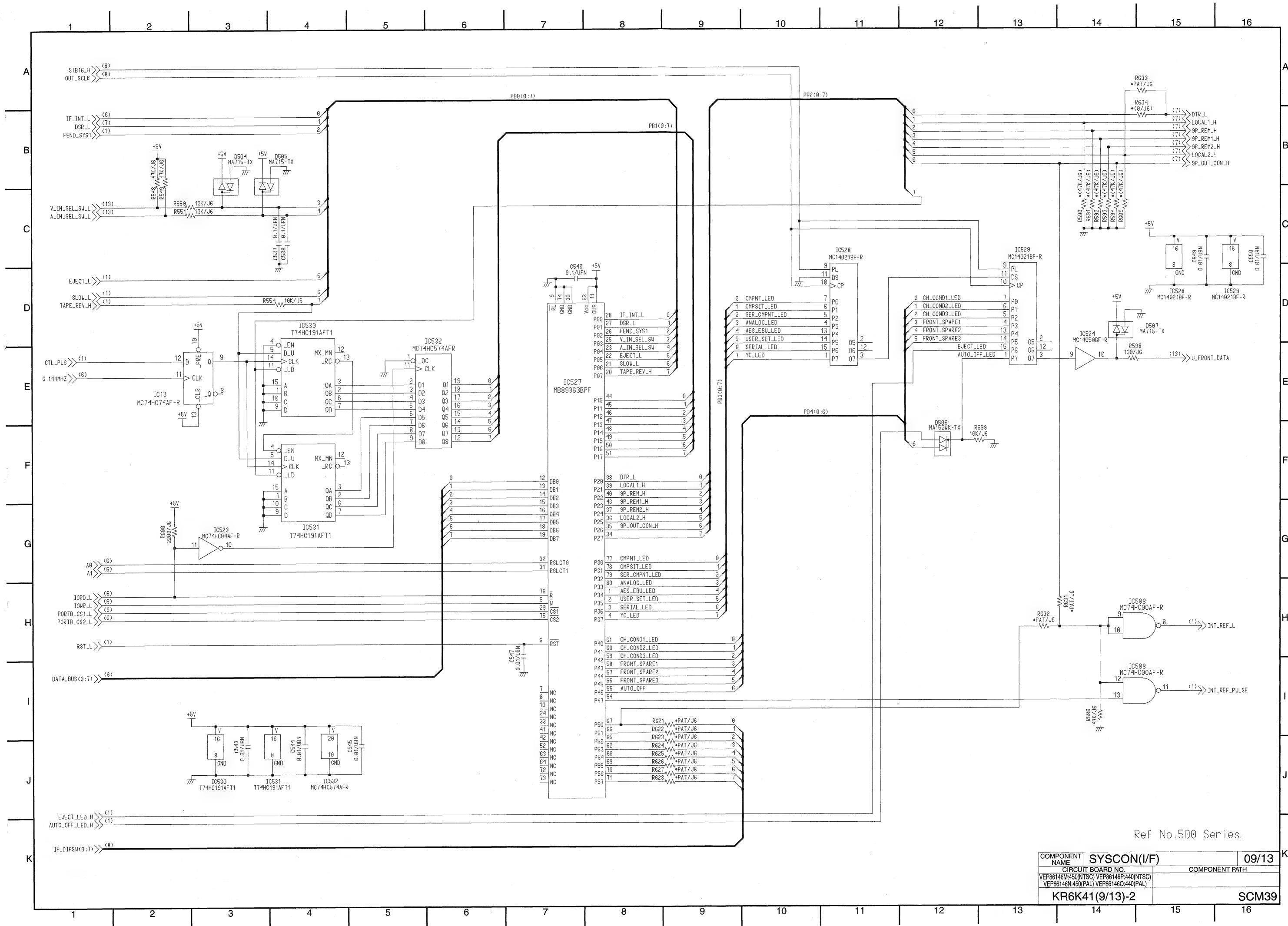


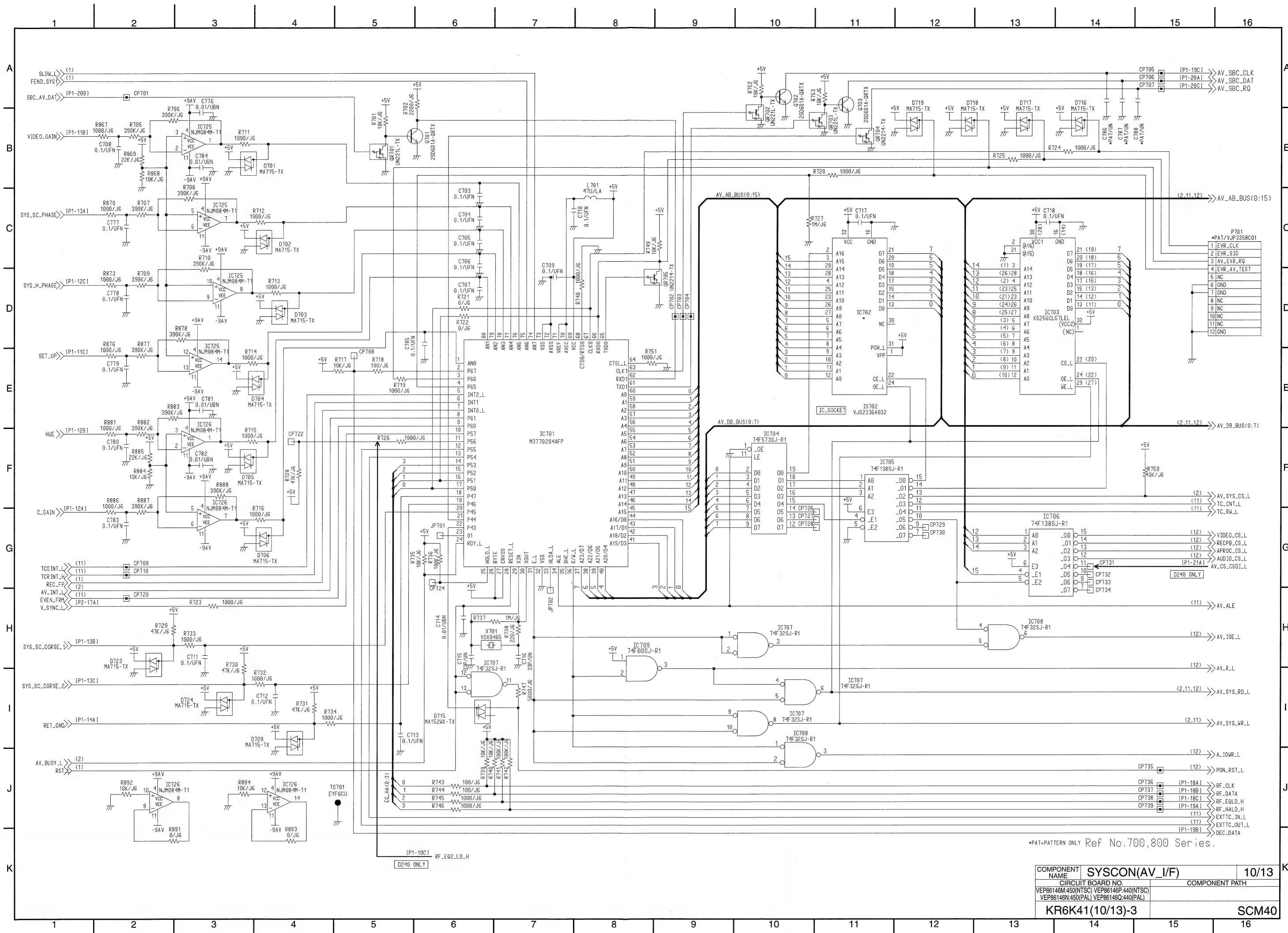


COMPONENT NAME	SYSCON(MAIN)	05/13
CIRCUIT BOARD NO.	COMPONENT PATH	
VEP86146M:450(NTSC) VEP86146P:440(NTSC)		
VEP86146N:450(PAL) VEP86146Q:440(PAL)		
KR6K41(5/13)-3		SCM35

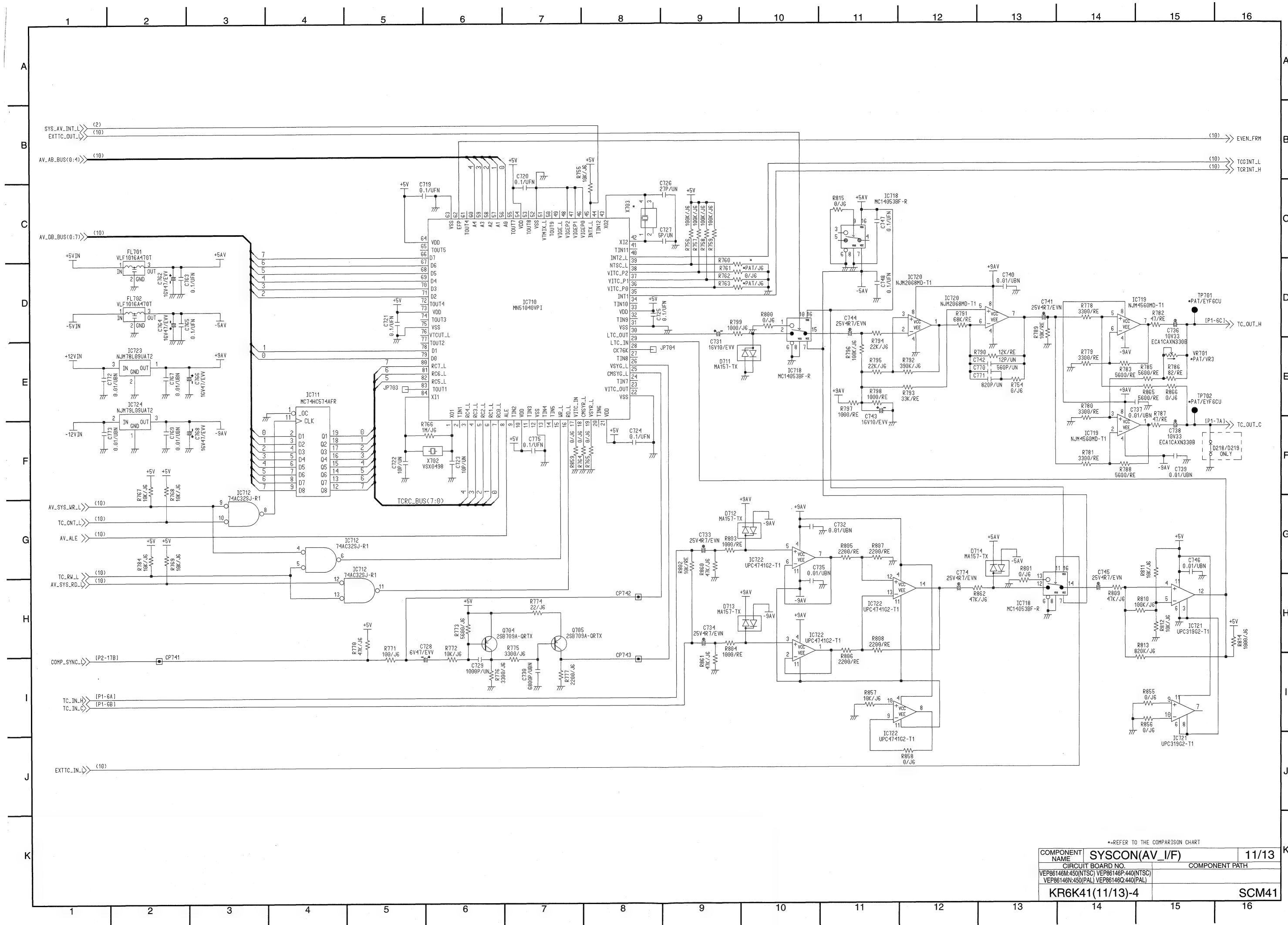


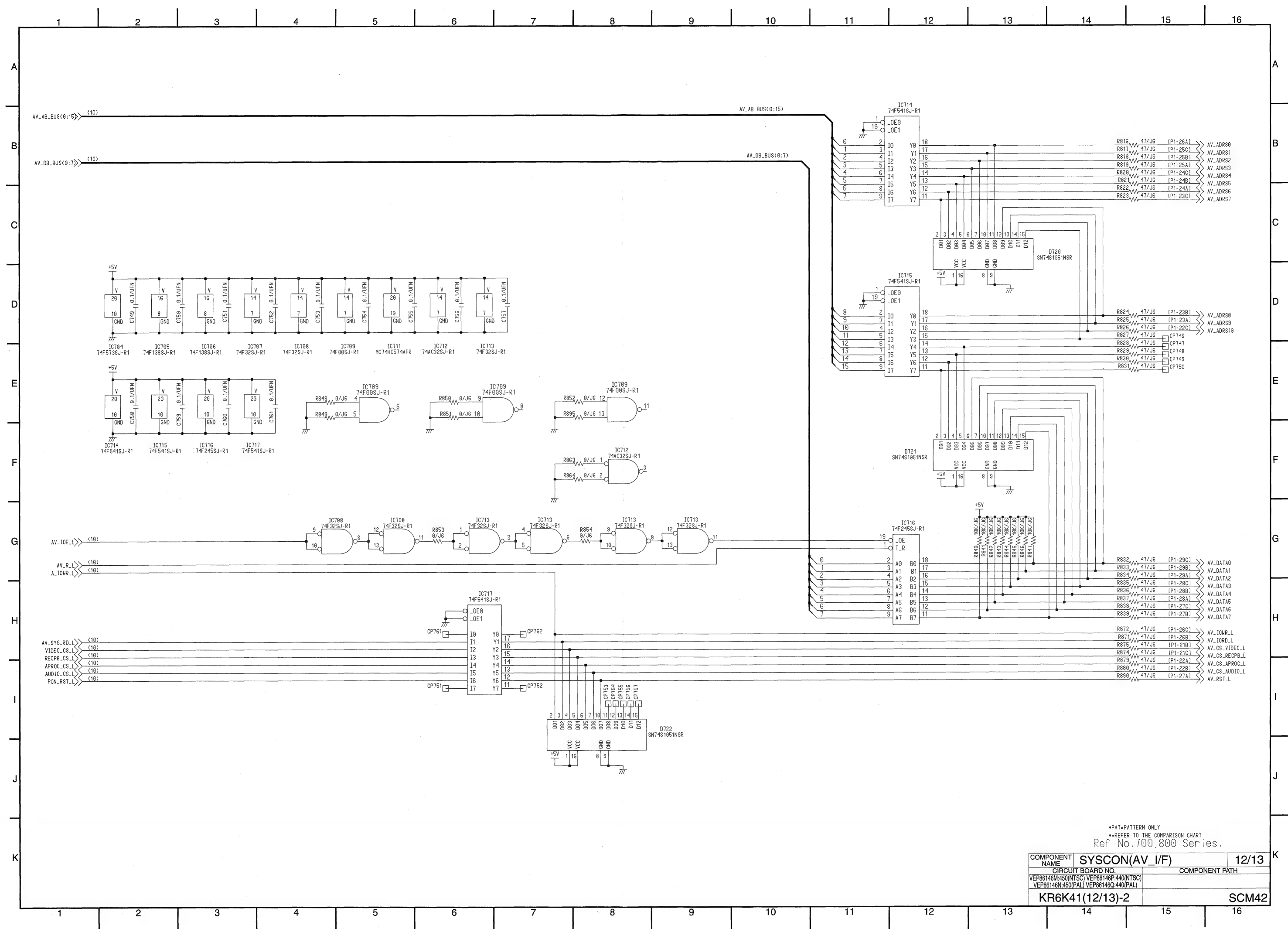


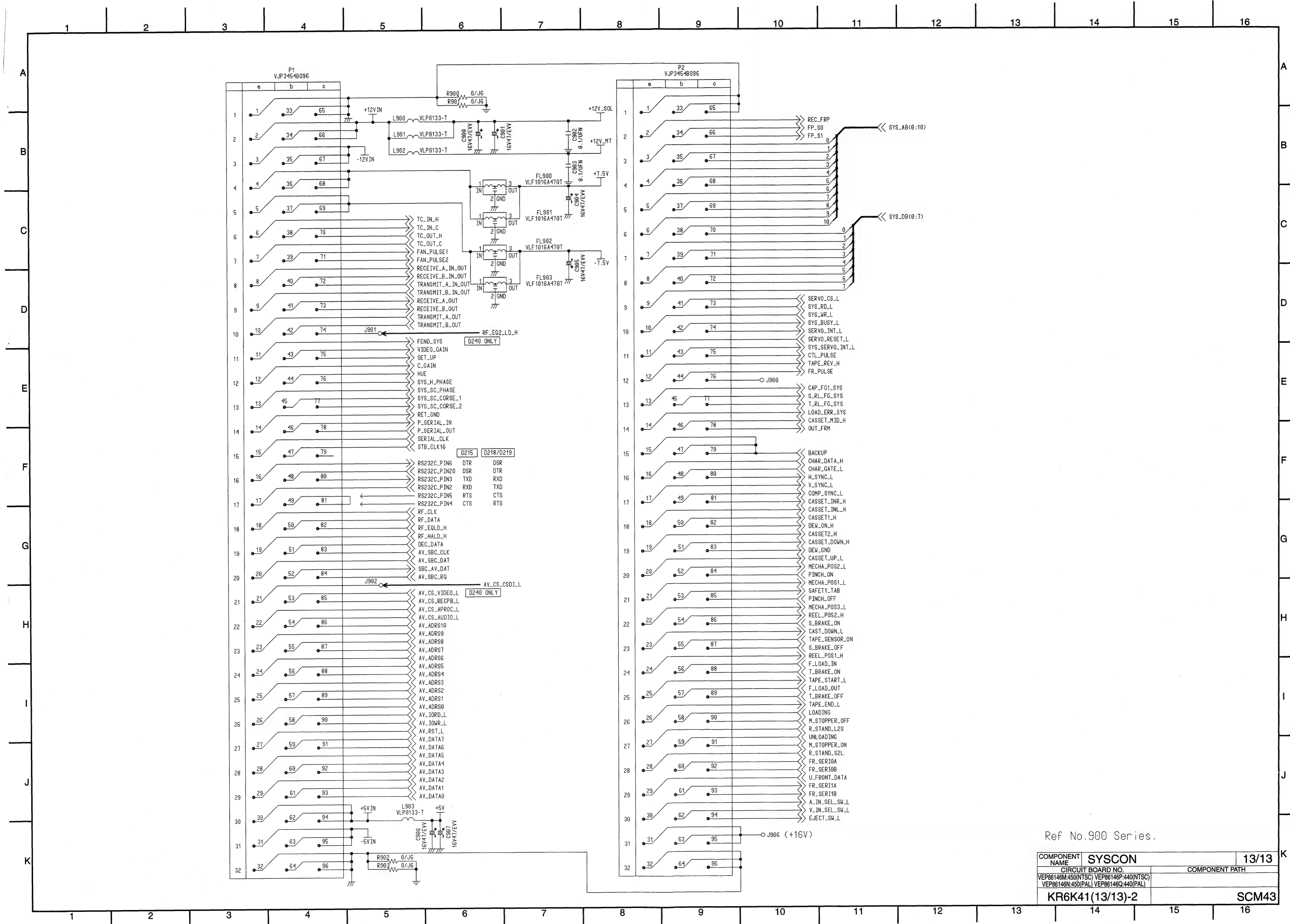


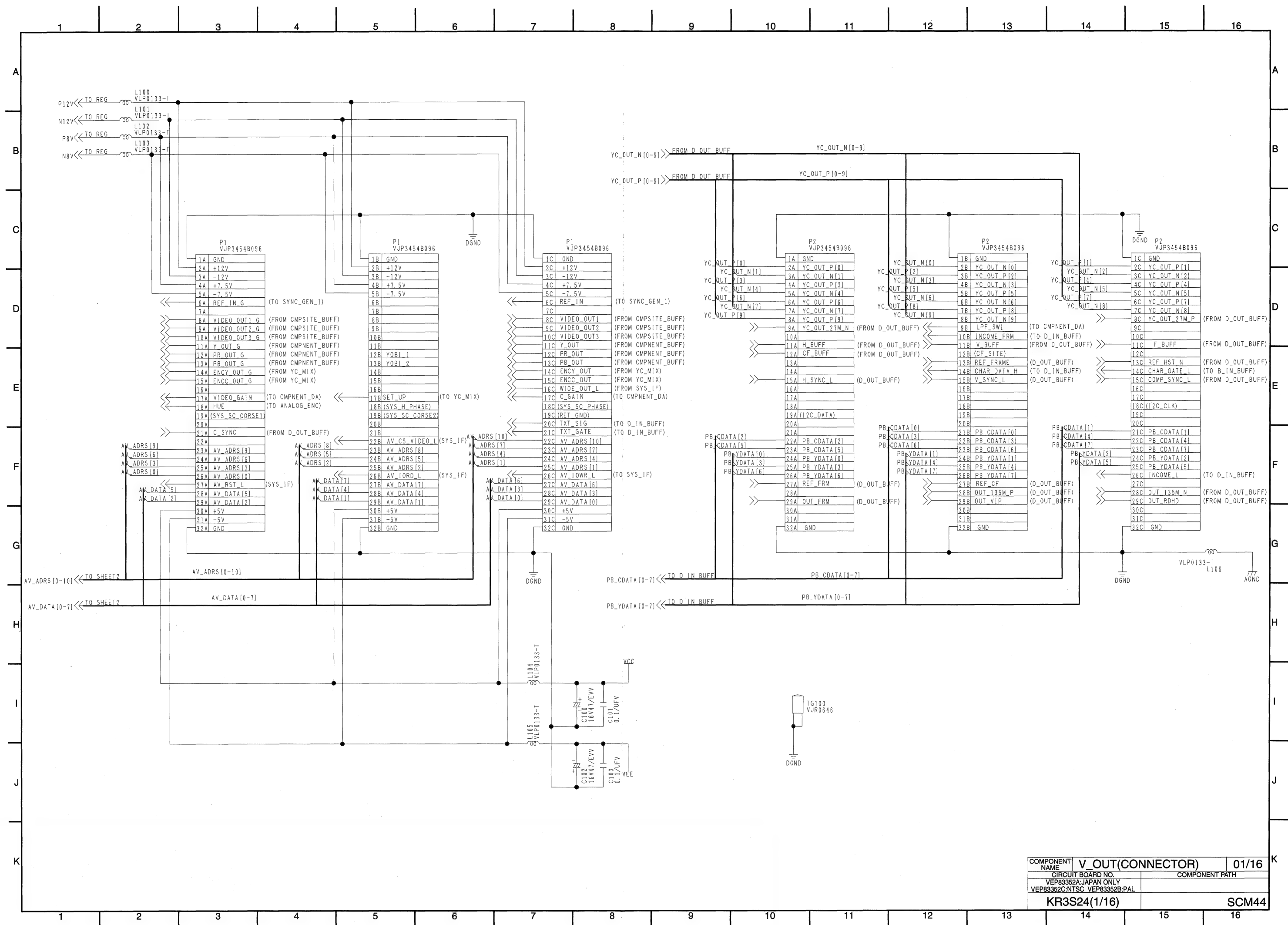


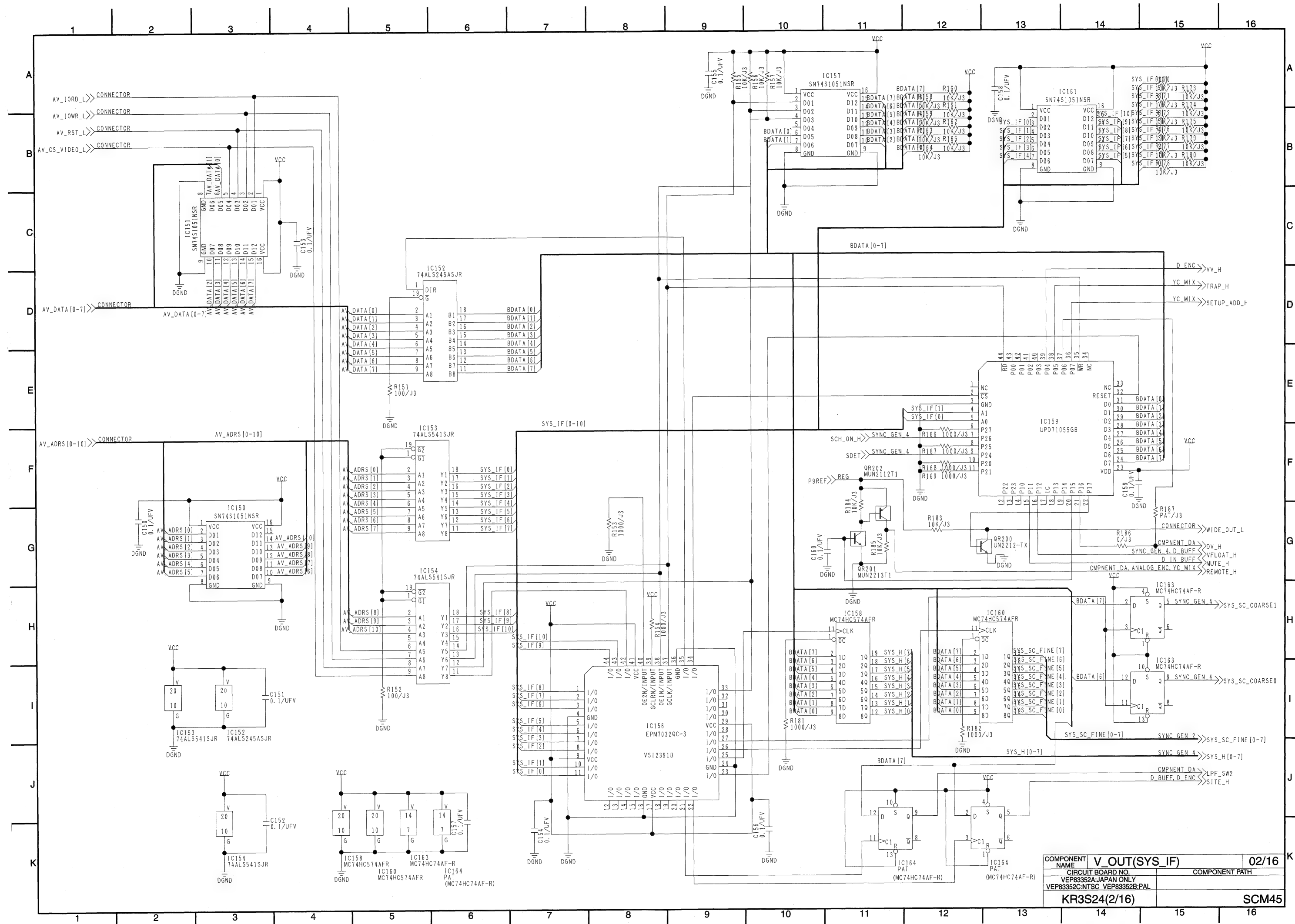
COMPONENT NAME	SYSCON(AV_I/F)	10/13
CIRCUIT BOARD NO.		COMPONENT PATH
VEP86148M:450(NTSC) VEP86148P:440(NTSC) VEP86148N:450(PAL) VEP86148Q:440(PAL)		
KR6K41(10/13)-3		SCM40

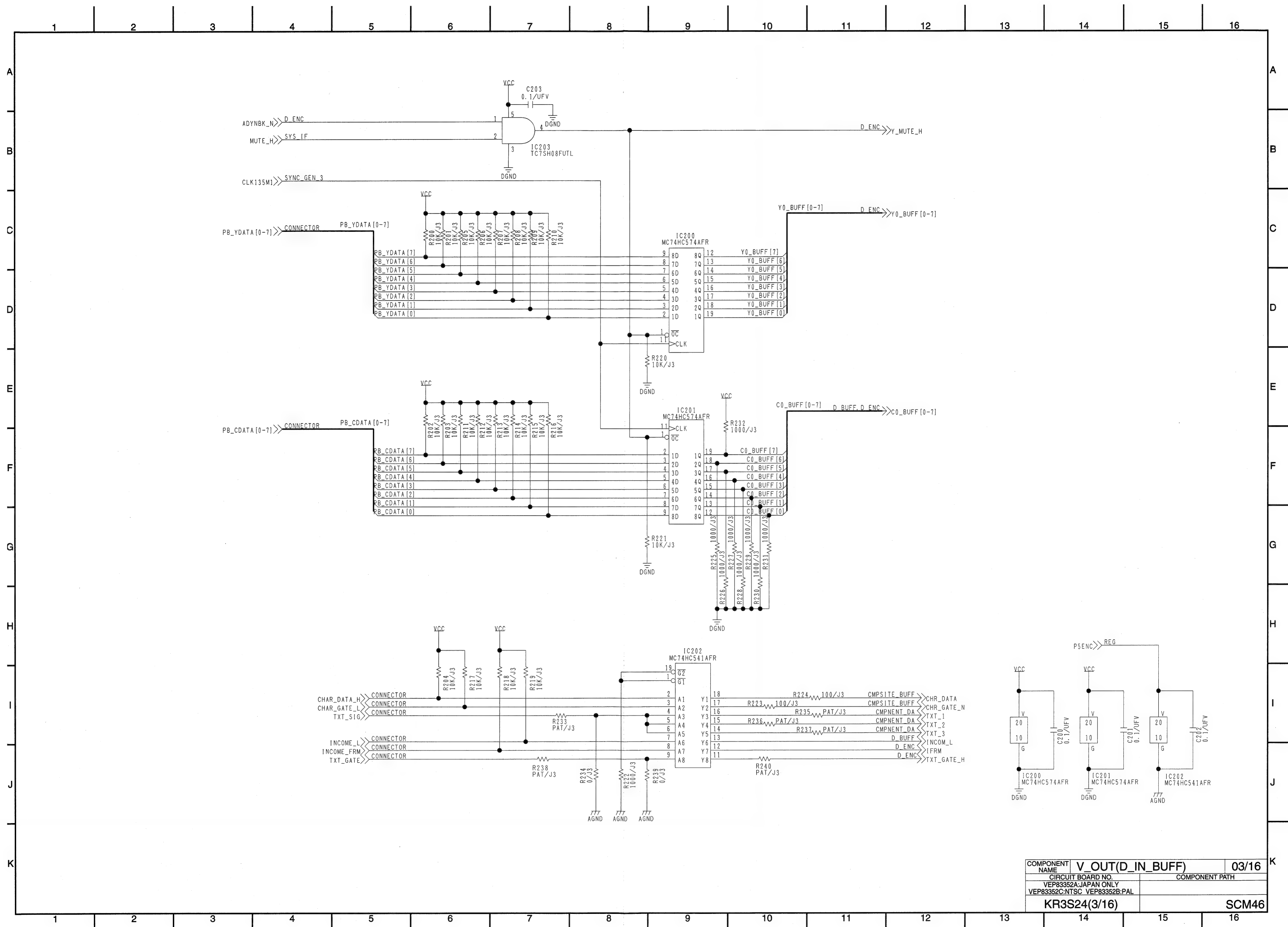


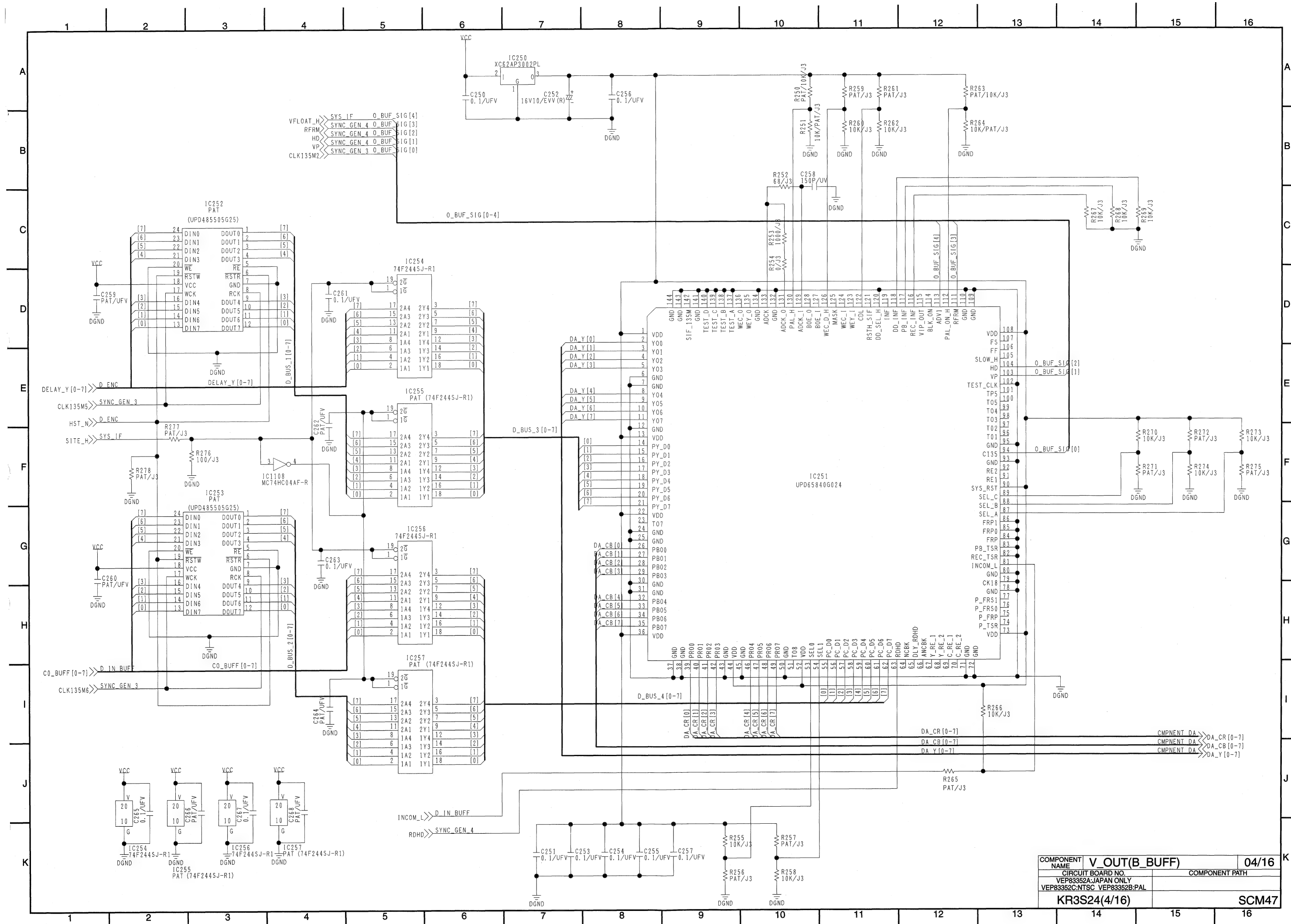




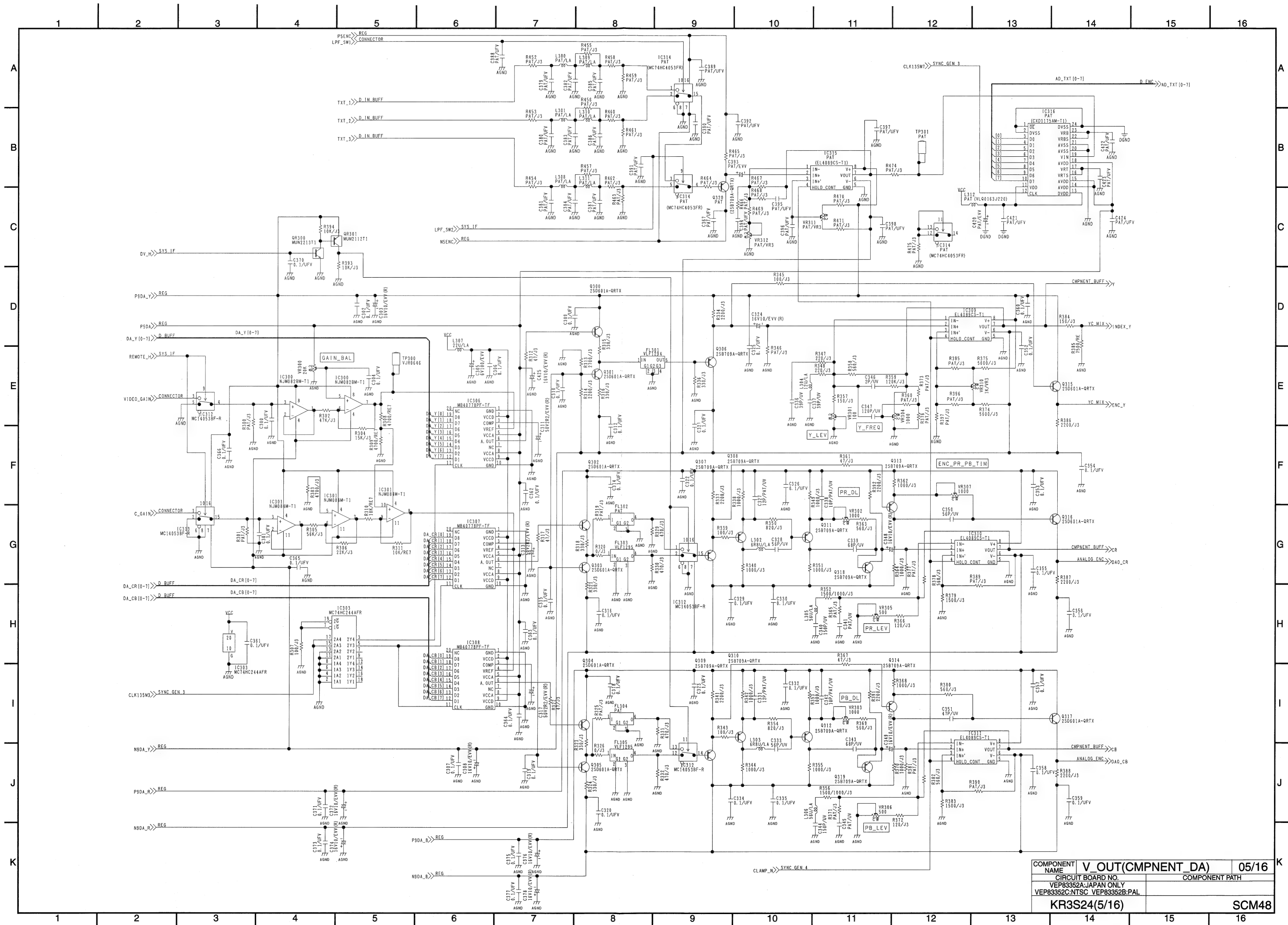






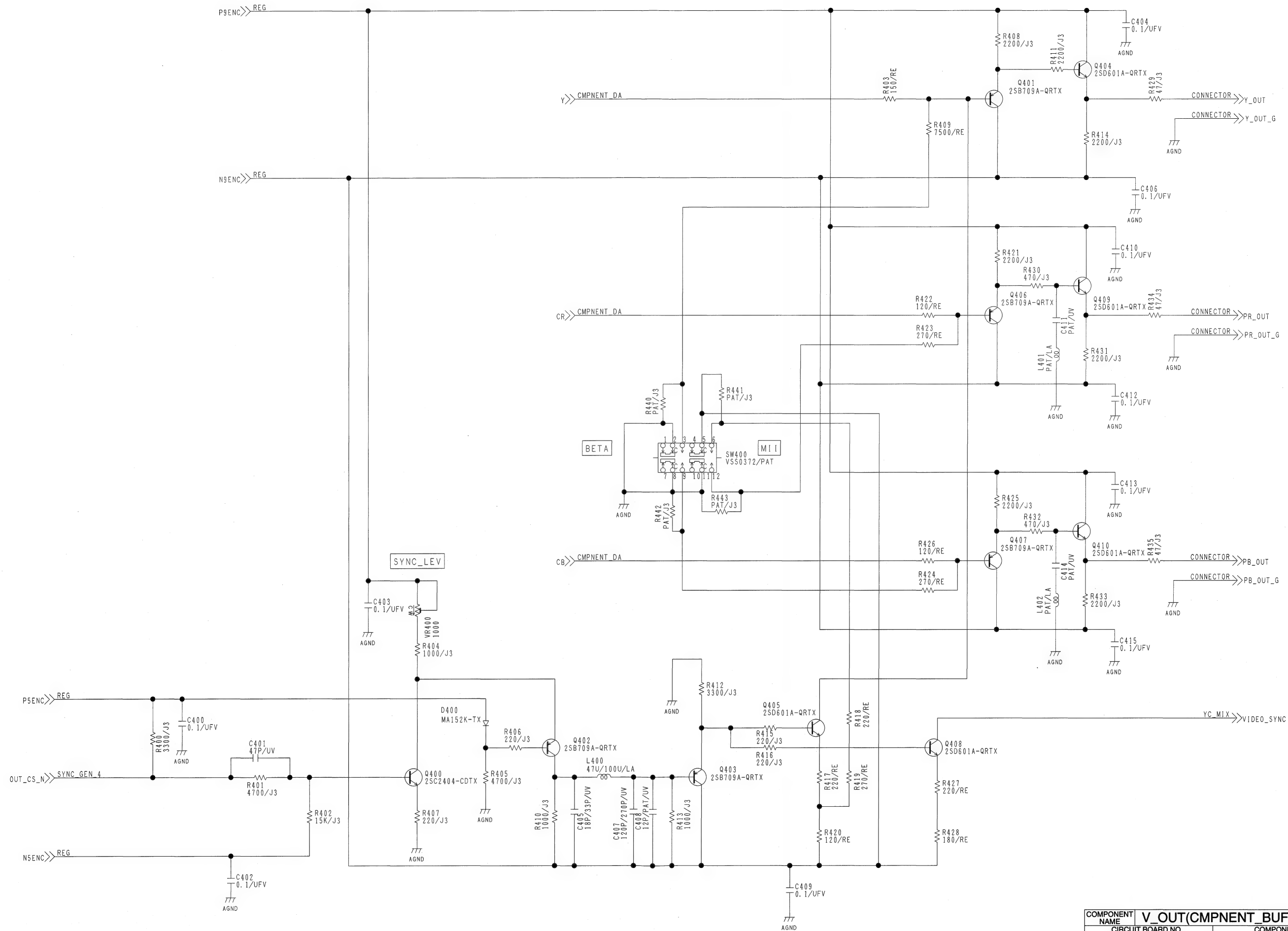


COMPONENT NAME	V_OUT(B_BUFF)	04/16
CIRCUIT BOARD NO.	VEP83352A:JAPAN ONLY	COMPONENT PATH
VEP83352C:NTSC	VEP83352B:PAL	
KR3S24(4/16)		SCM47



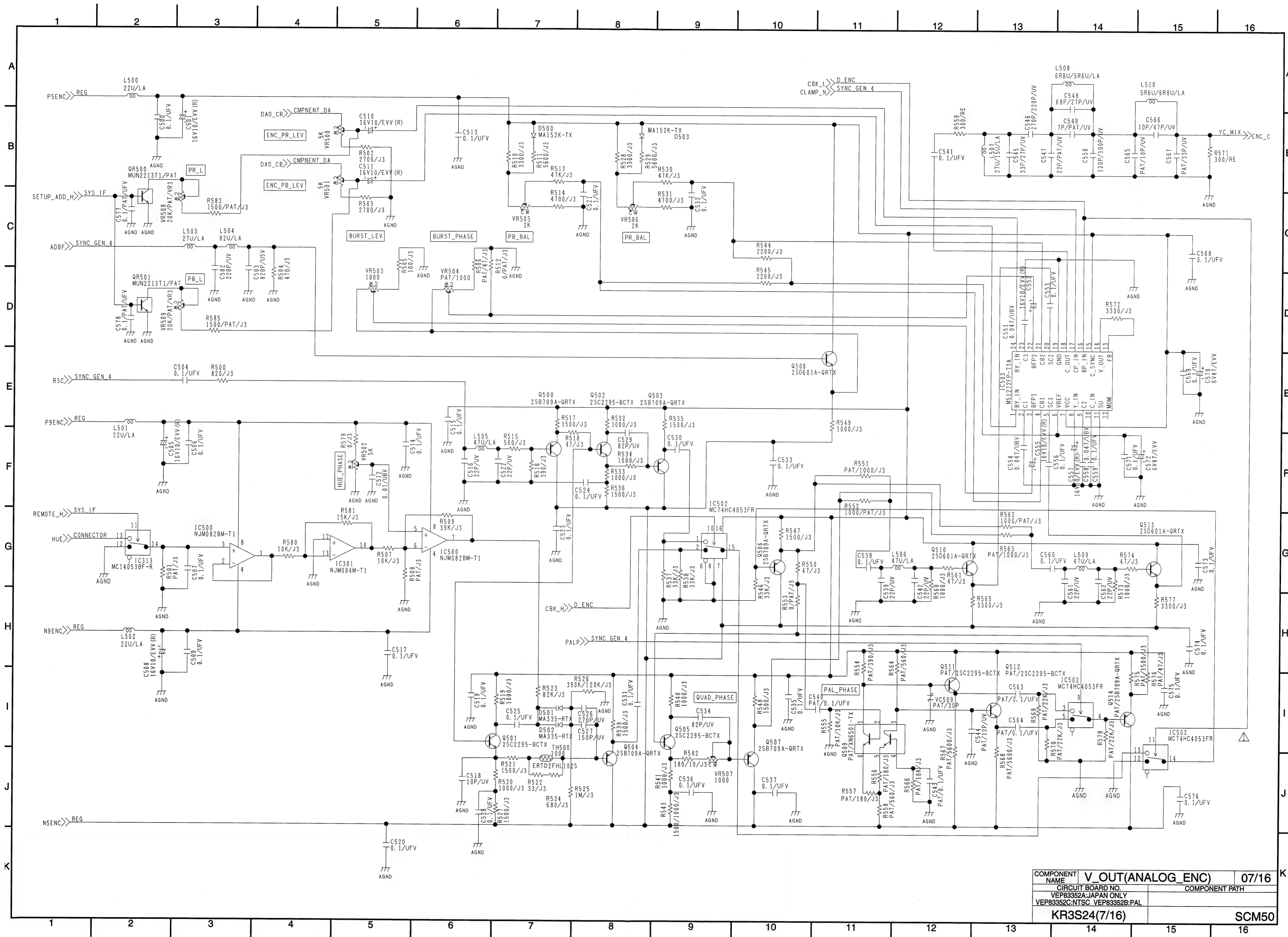
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16

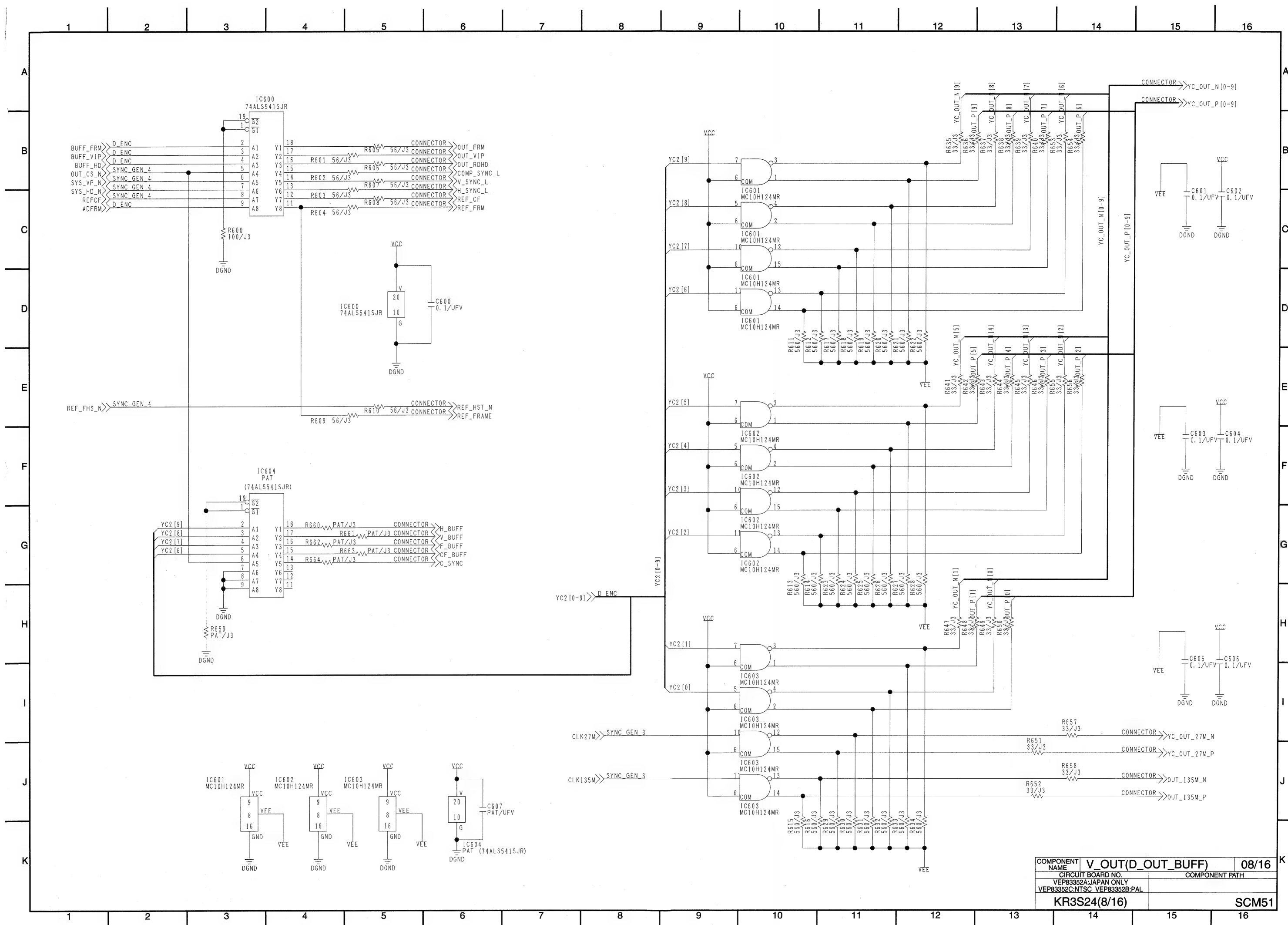
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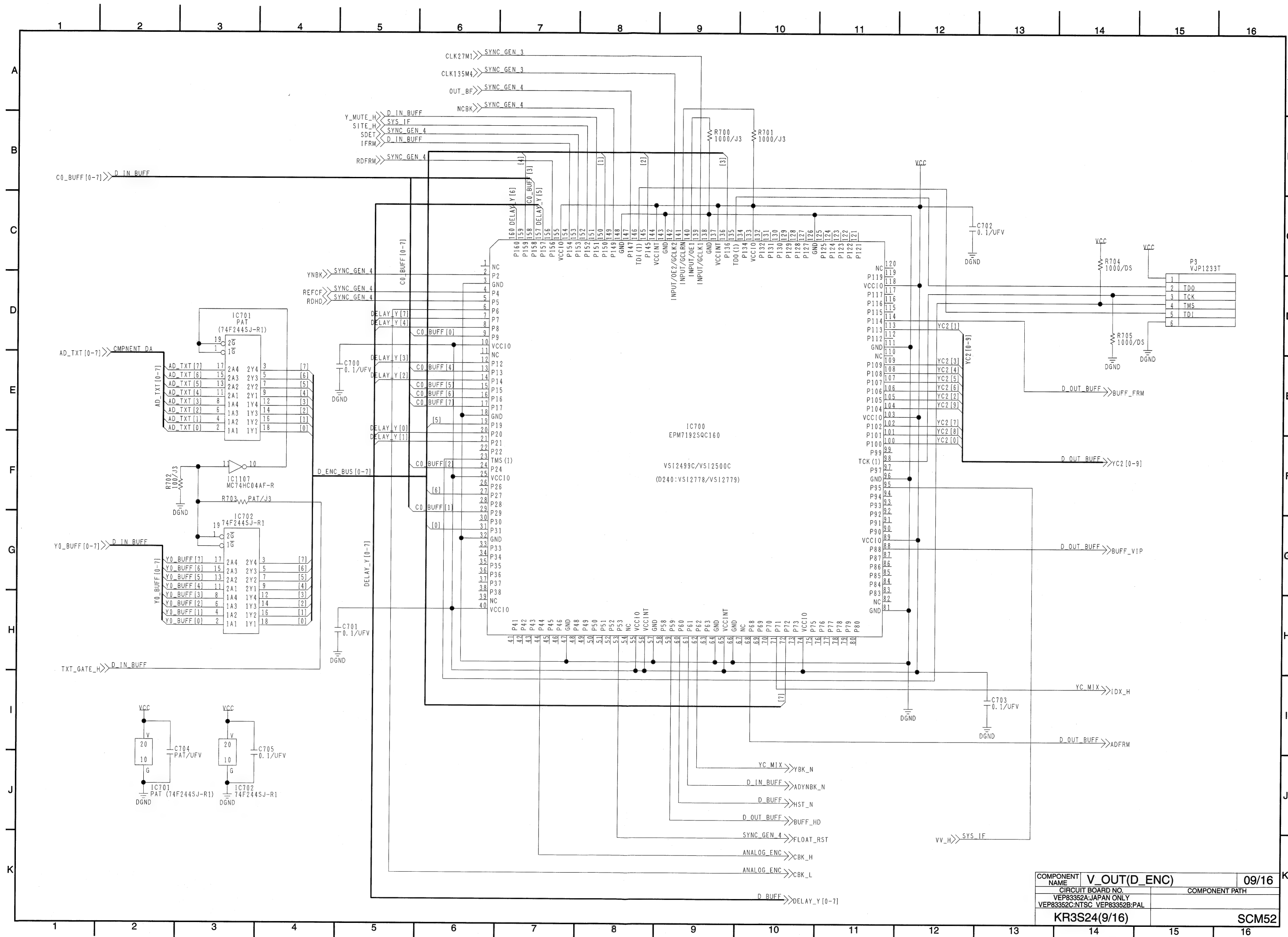


COMPONENT NAME	V_OUT(CMPNENT_BUFF)	06/16
CIRCUIT BOARD NO.	VEP83352A-JAPAN ONLY	COMPONENT PATH
VEP83352C-NTSC	VEP83352B-PAL	
KR3S24(6/16)		SCM49

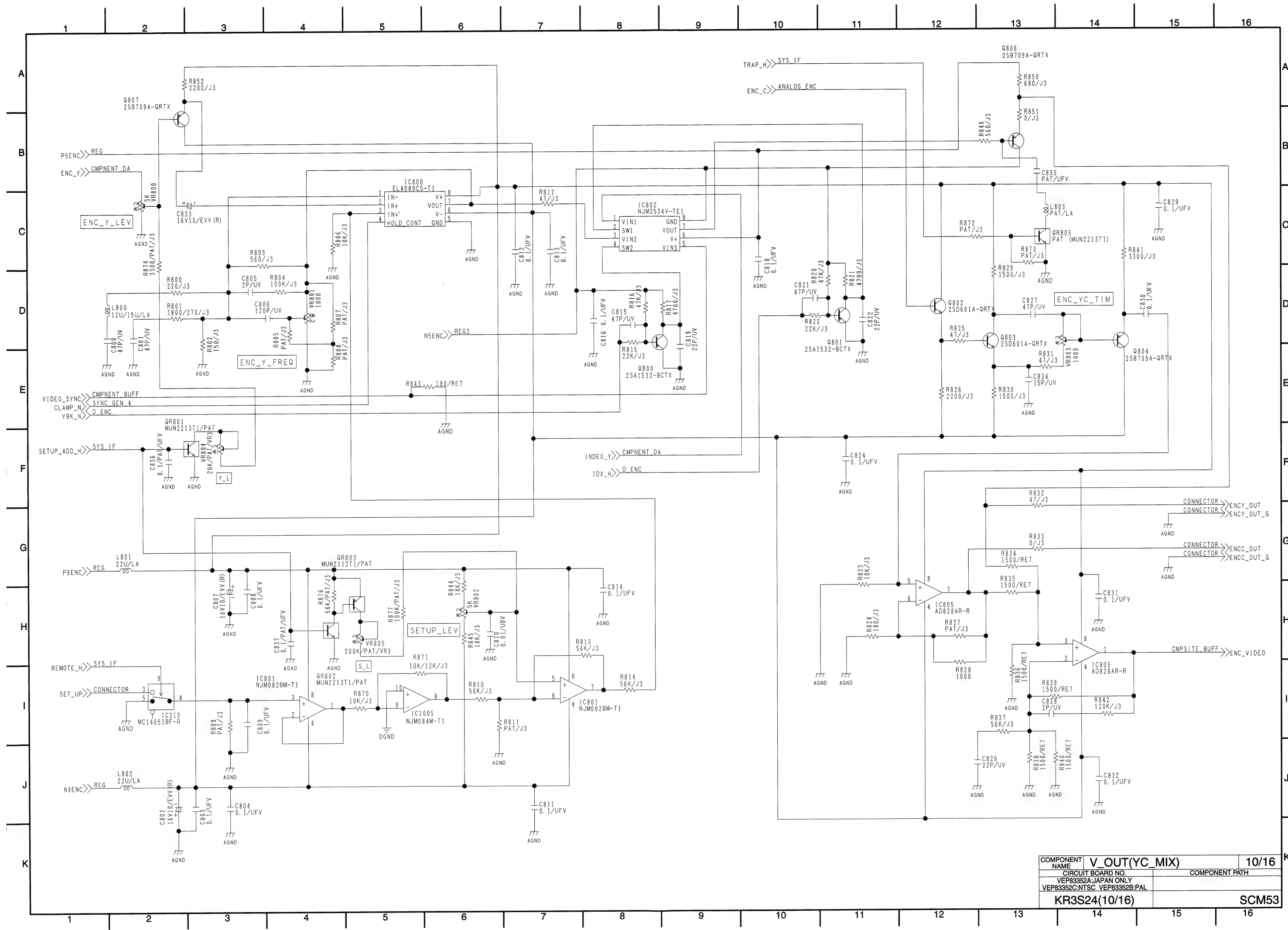
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16



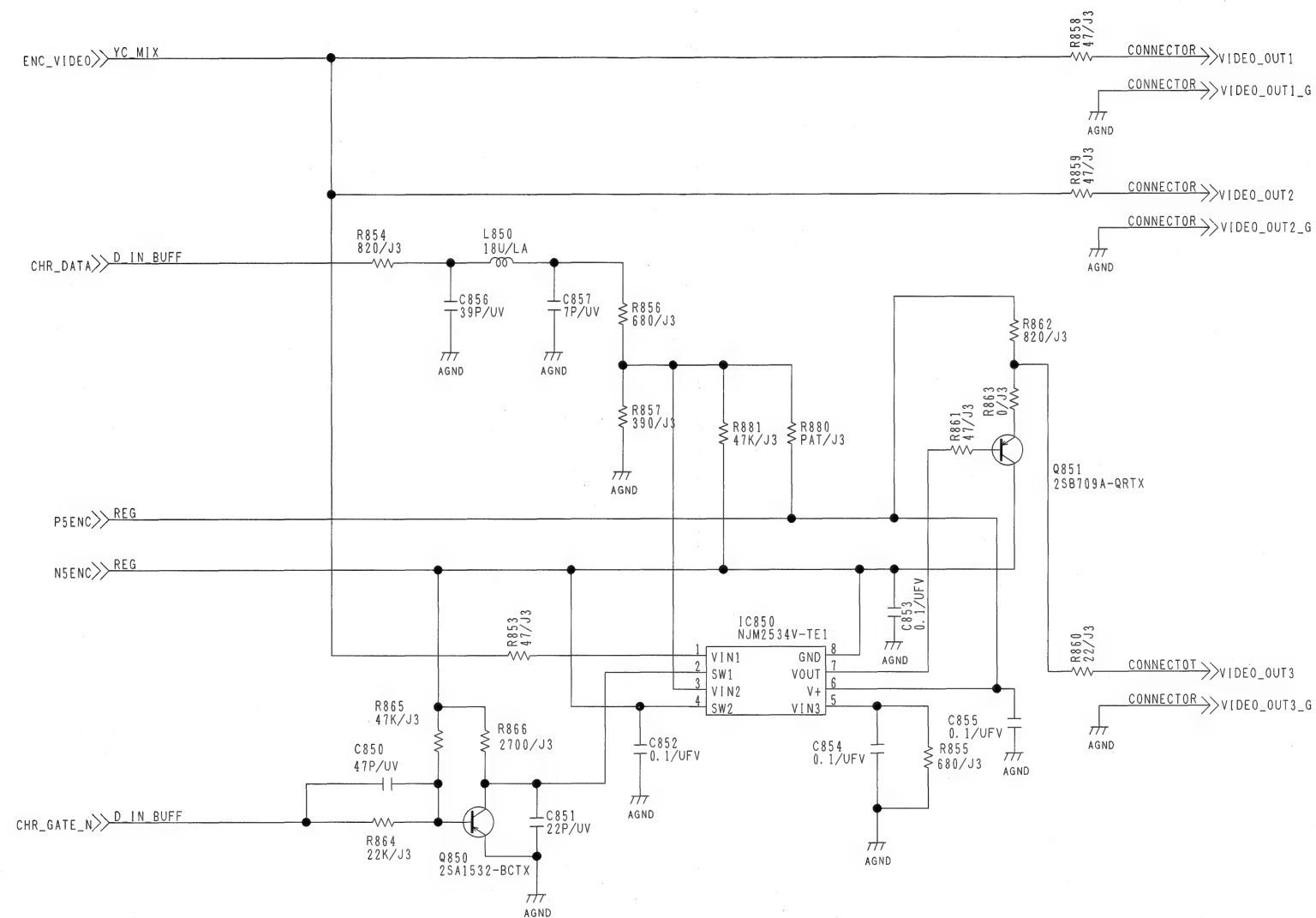




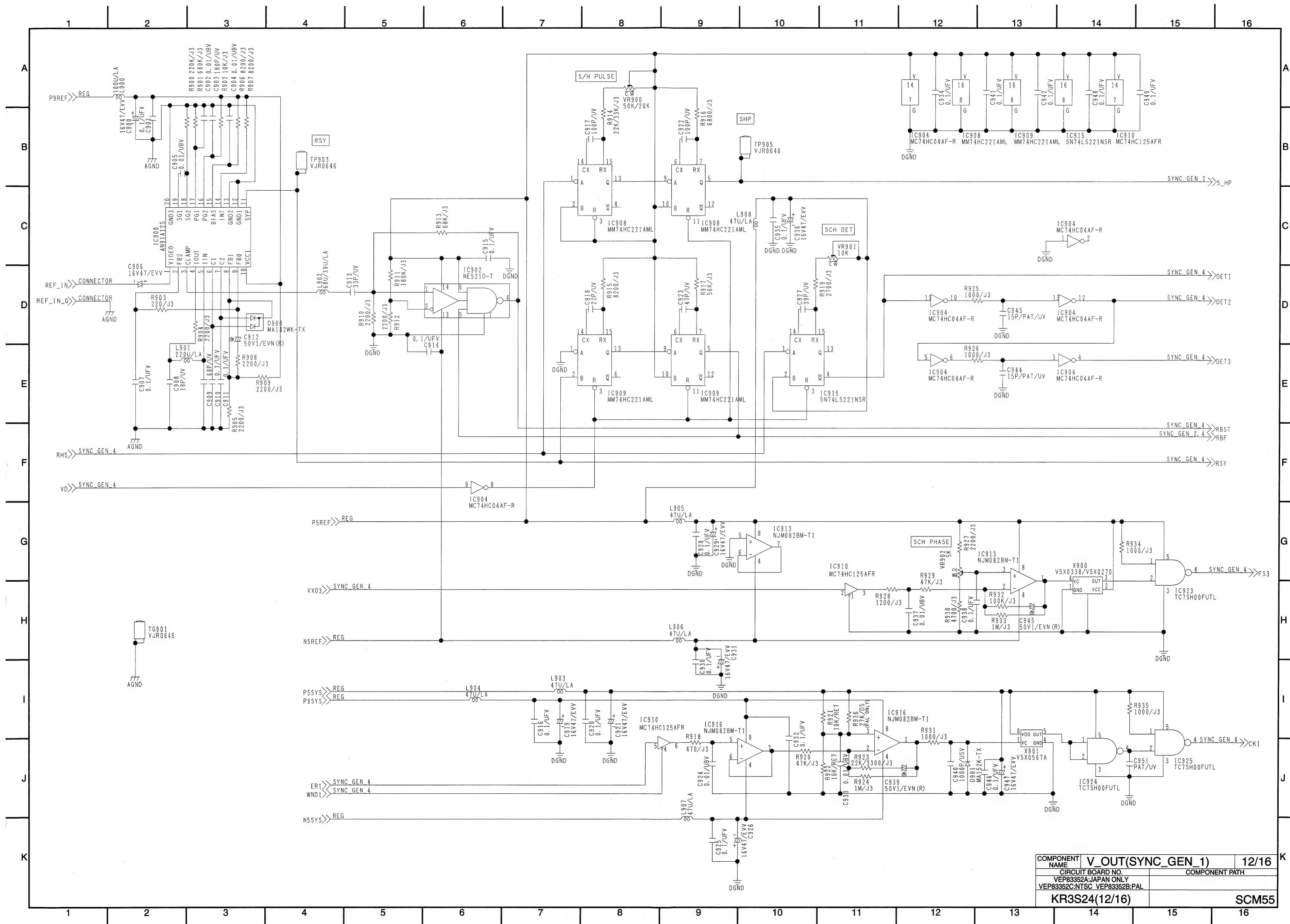
COMPONENT NAME	V_OUT(D_ENC)	09/16
CIRCUIT BOARD NO.	VEP83352A: JAPAN ONLY	COMPONENT PATH
	VEP83352C: NTSC	VEP83352B: PAL
	KR3S24(9/16)	SCM52

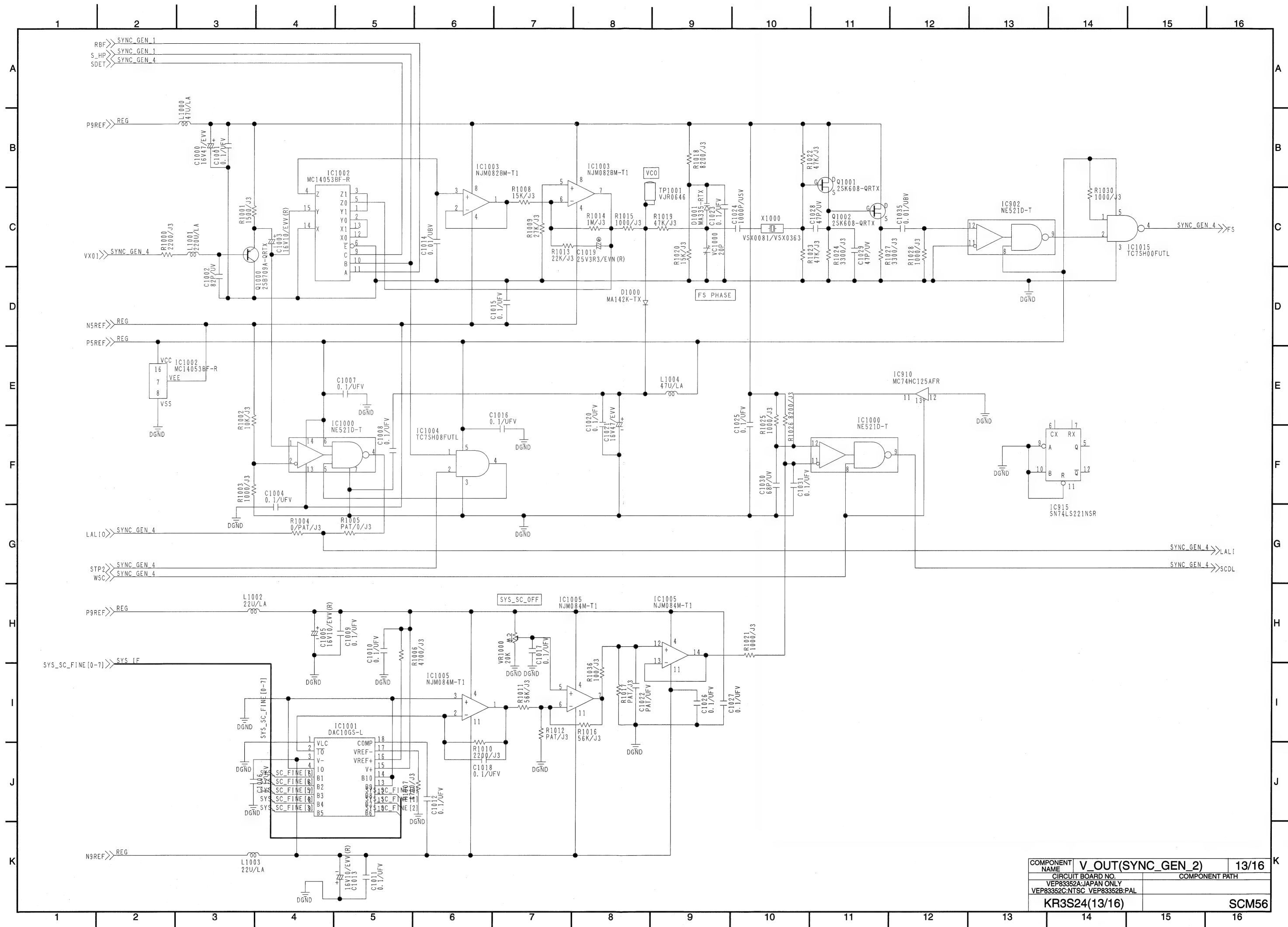


COMPONENT NAME	V_OUT(YC_MIX)	10/16
CIRCUIT BOARD NO.	VEP83352A-JAPAN ONLY	COMPONENT PATH
VEP83352C-NTSC	VEP83352B-PAL	
KR3S24(10/16)		SCM53



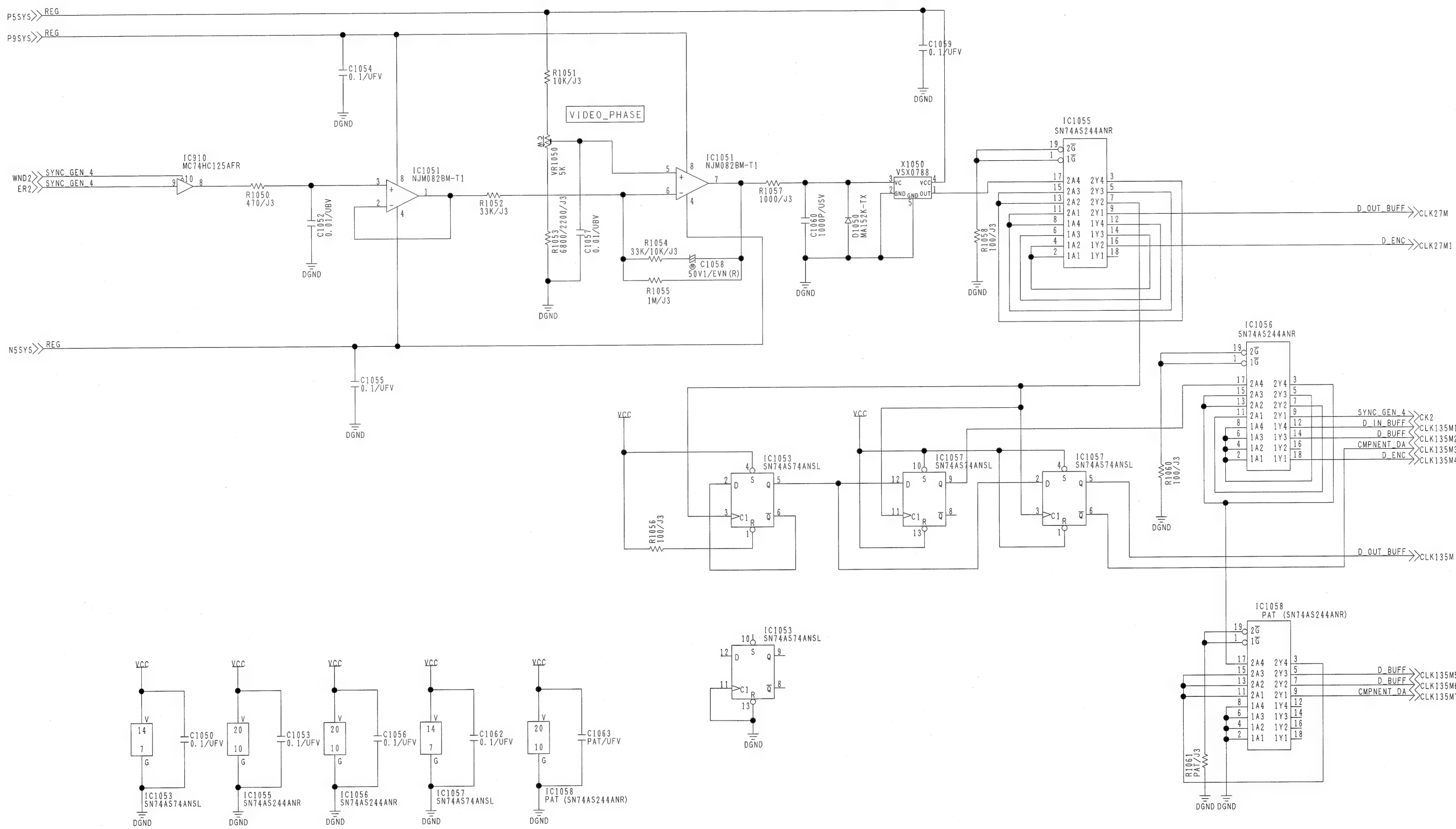
COMPONENT NAME	V_OUT(COMPOSITE_BUFF)	11/16
CIRCUIT BOARD NO.	VEP83352A: JAPAN ONLY	COMPONENT PATH
	VEP83352C: NTSC	VEP83352B: PAL
KR3S24(11/16)		SCM54





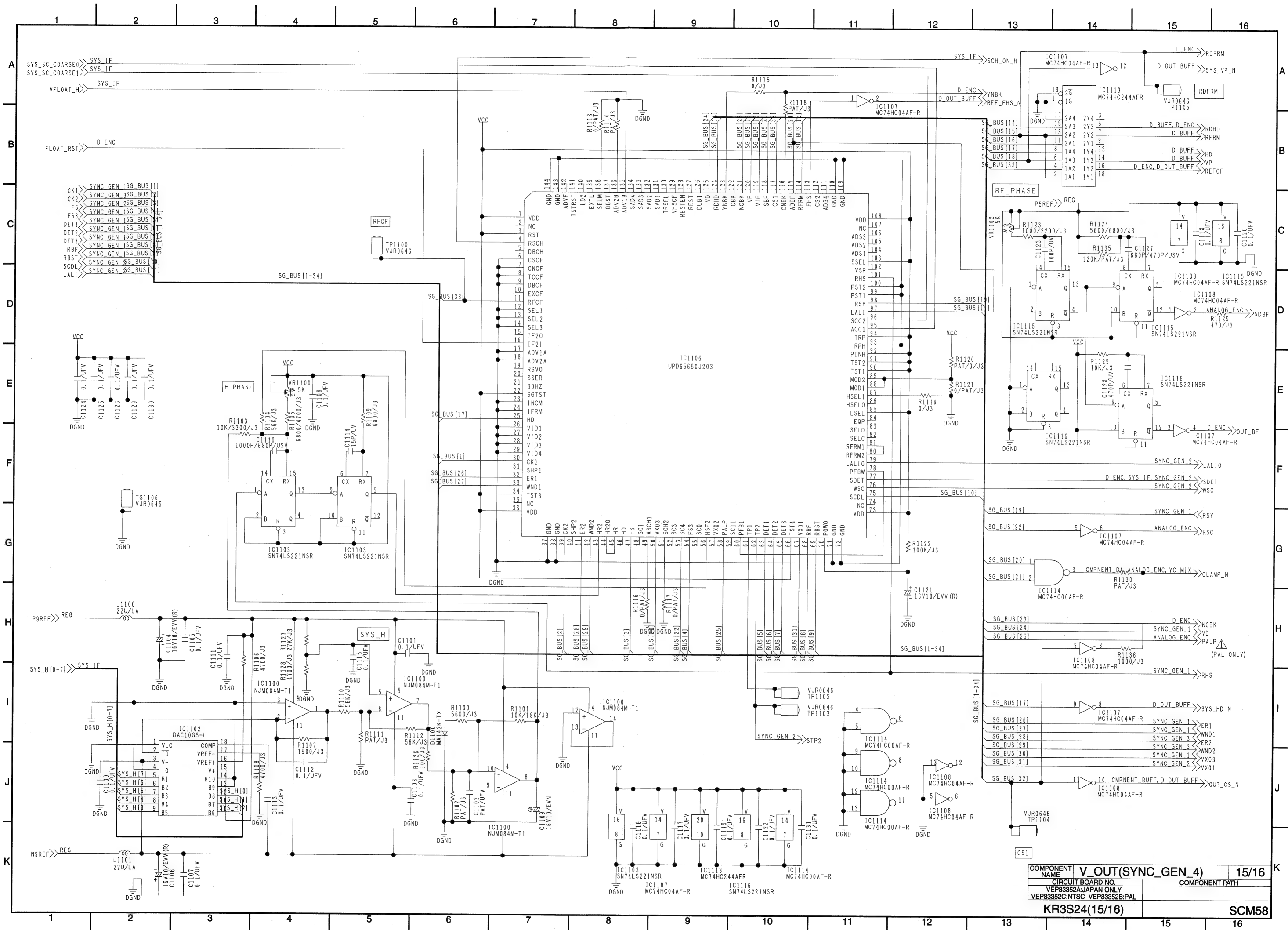
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16

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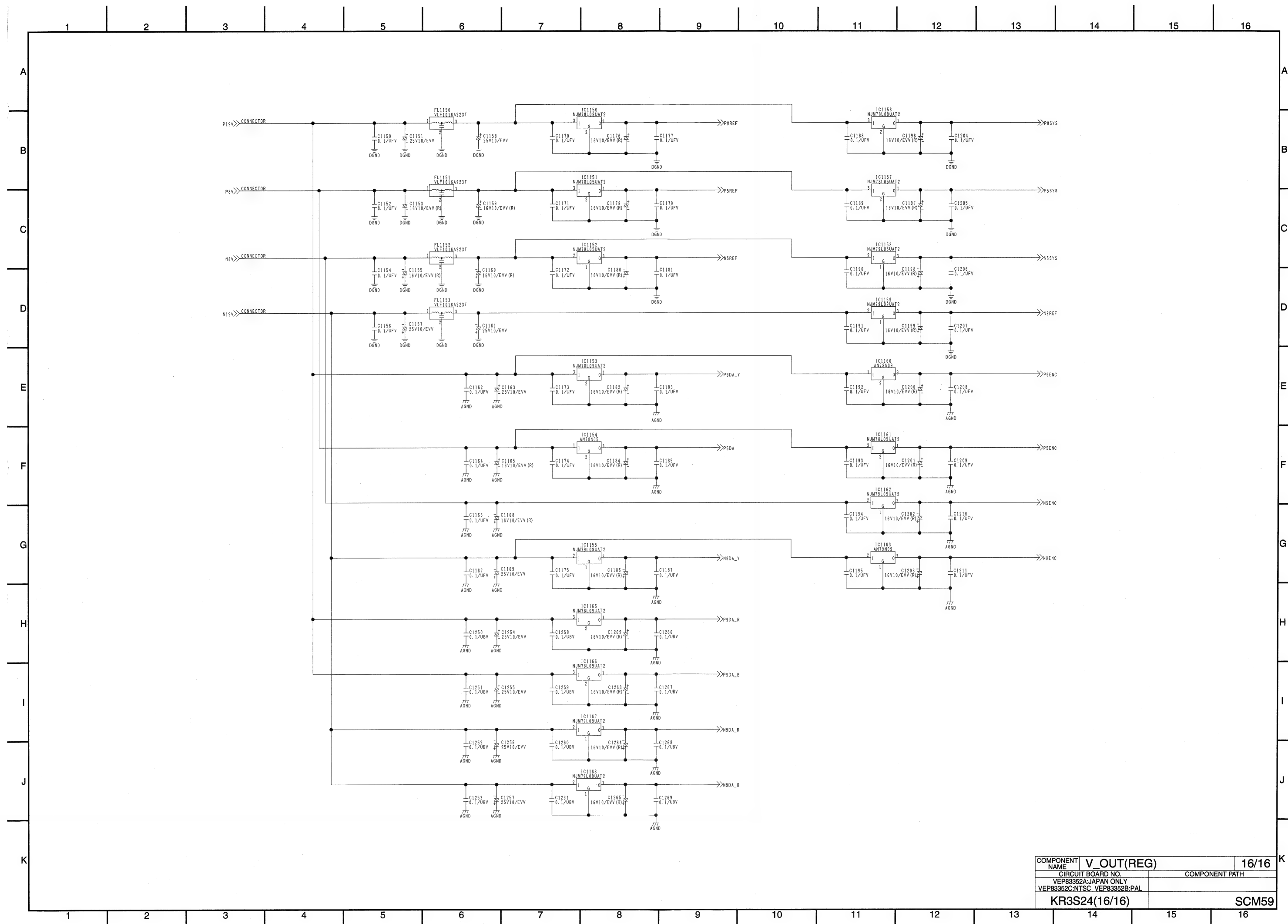


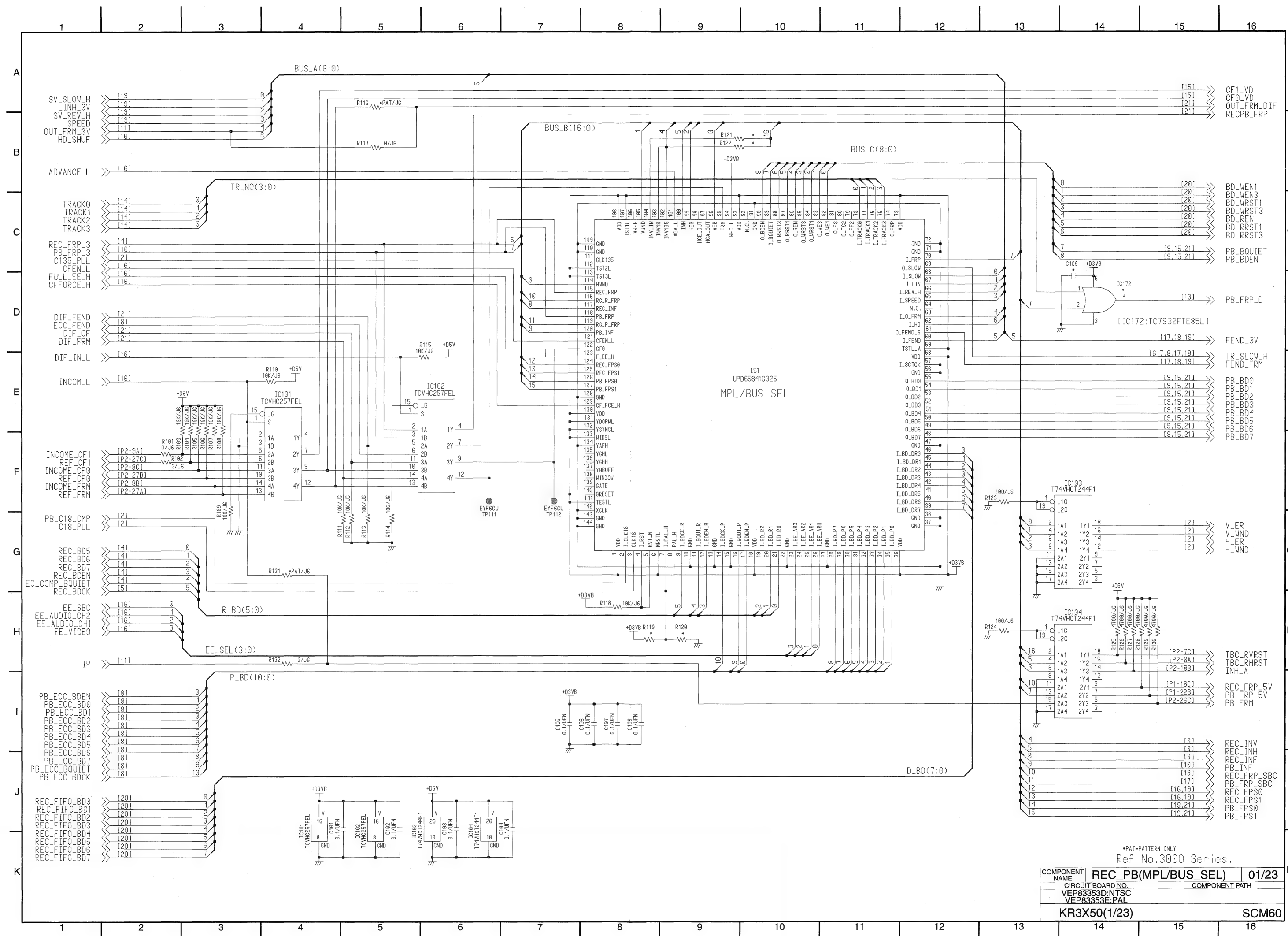
COMPONENT NAME	V_OUT(SYNC_GEN_3)	14/16
CIRCUIT BOARD NO.	COMPONENT PATH	
VEP83352A: JAPAN ONLY		
VEP83352C: NTSC	VEP83352B: PAL	
KR3S24(14/16)		SCM57

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16

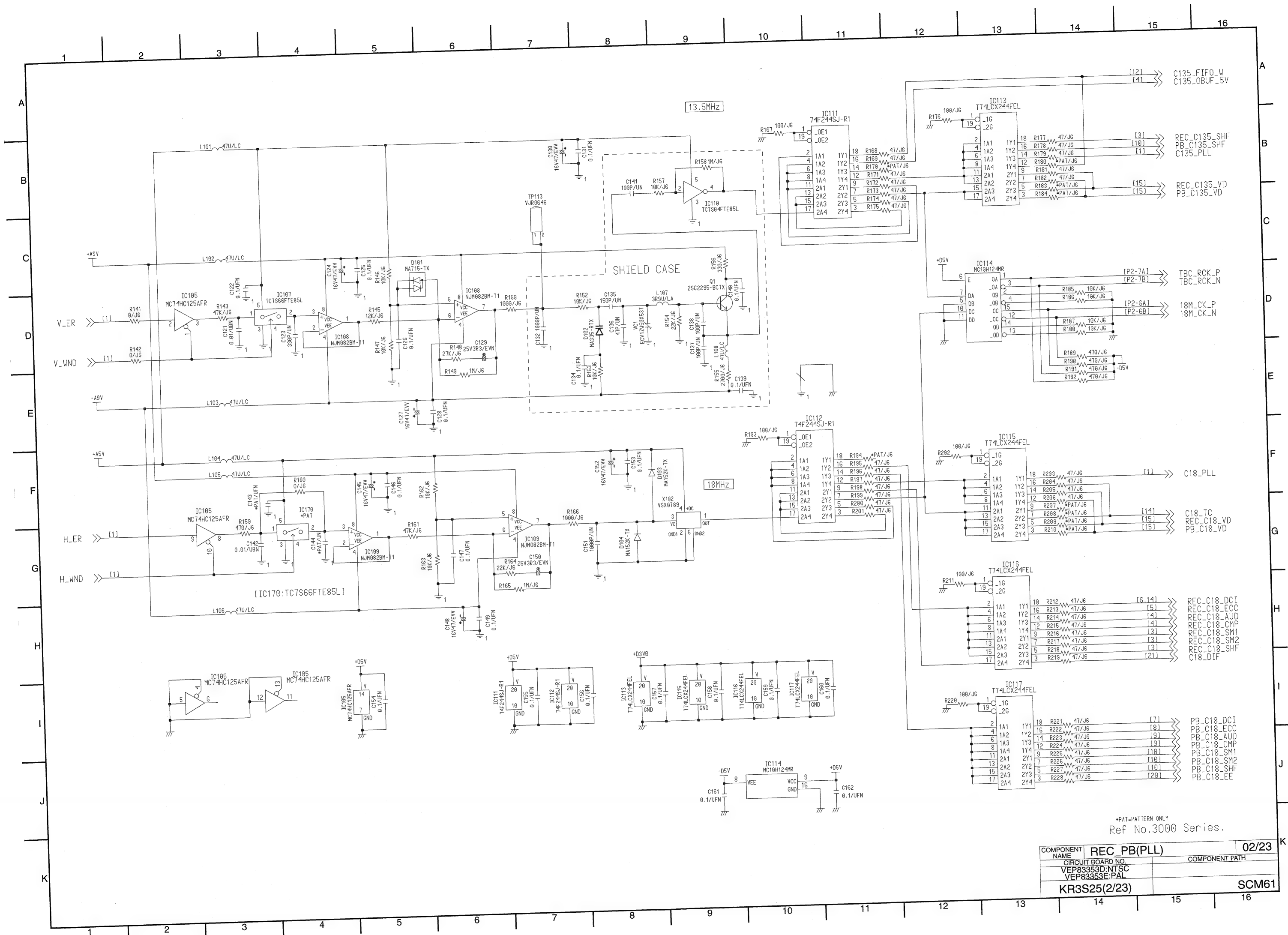


COMPONENT NAME	V_OUT(SYNC_GEN_4)	15/16
CIRCUIT BOARD NO.	COMPONENT PATH	
VEP83352A JAPAN ONLY		
VEP83352C-NTSC	VEP83352B-PAL	
KR3S24(15/16)		SCM58

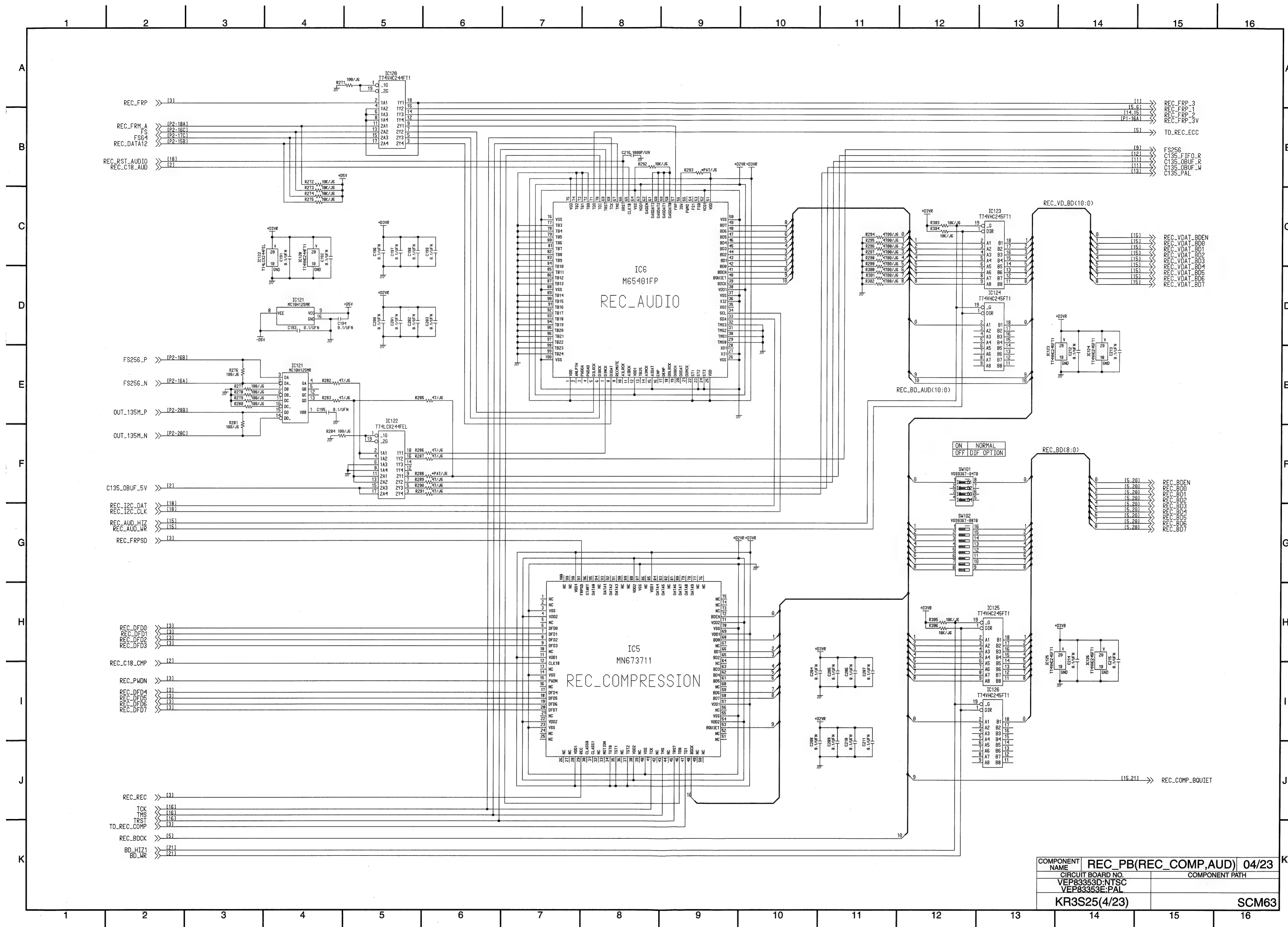


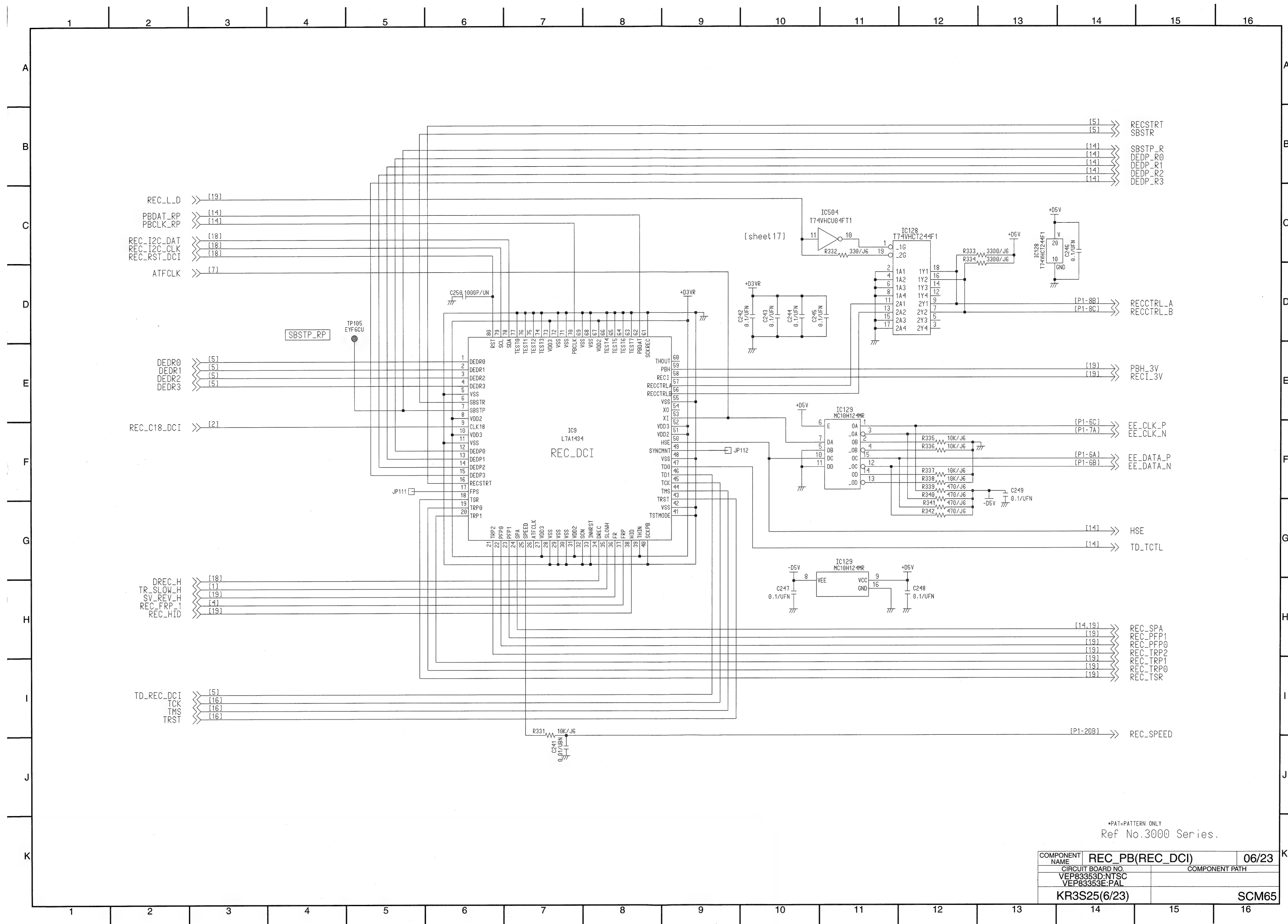


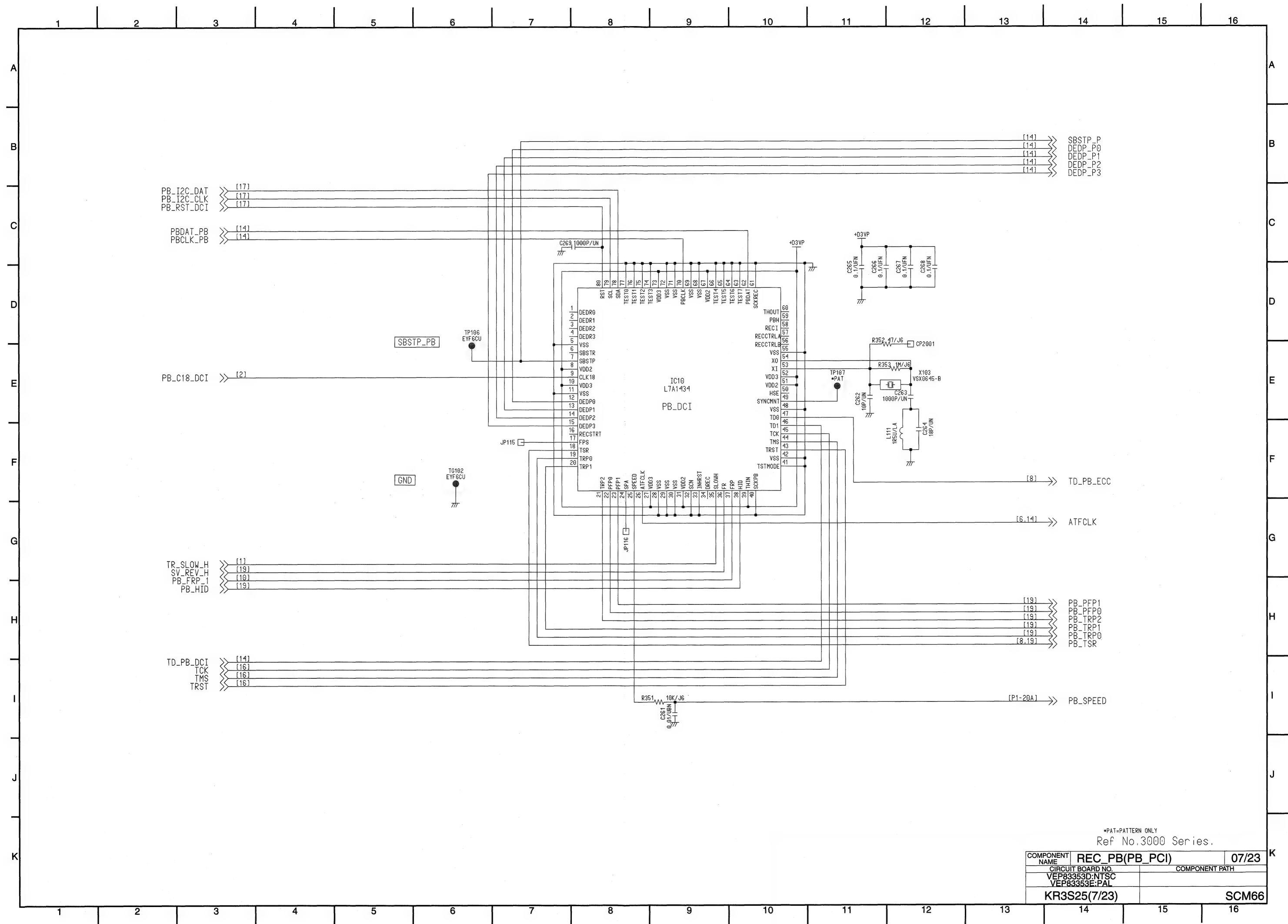
COMPONENT NAME	REC_PB(MPL/BUS_SEL)	01/23
CIRCUIT BOARD NO.	COMPONENT PATH	
VEP83353D:NTSC VEP83353E:PAL		
KR3X50(1/23)	SCM60	

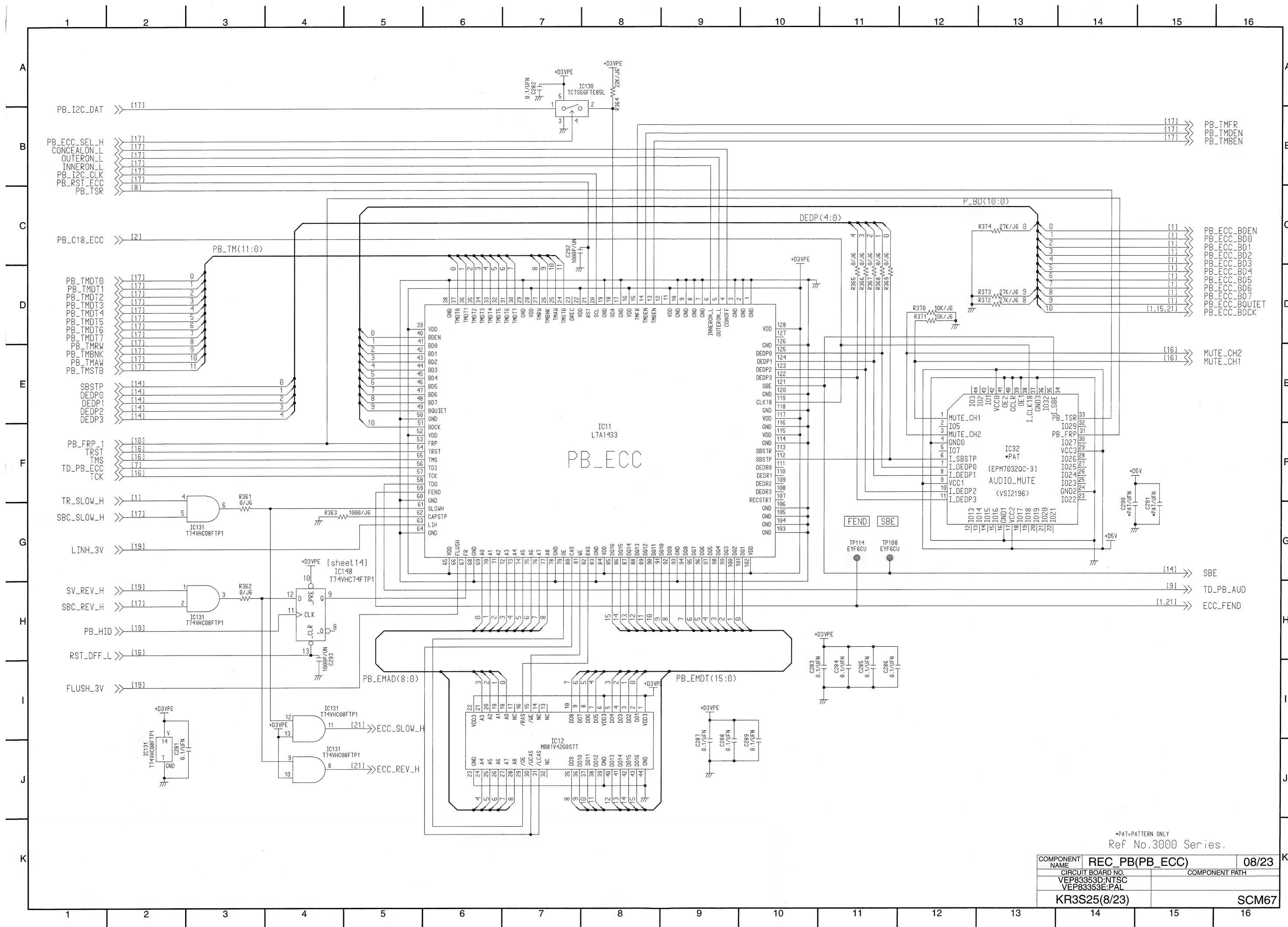


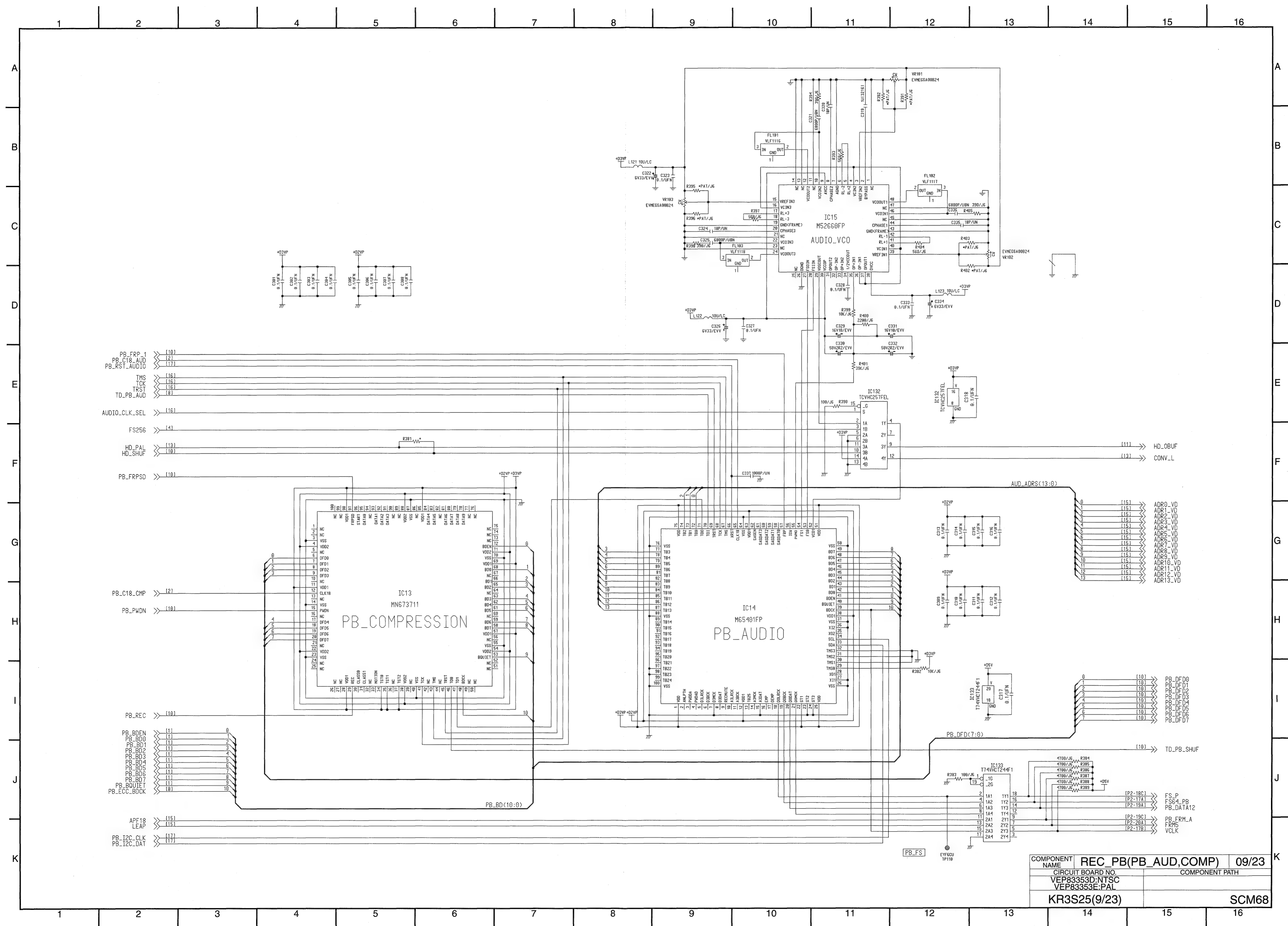
*PAT=PATTERN ONLY
Ref No.3000 Series.

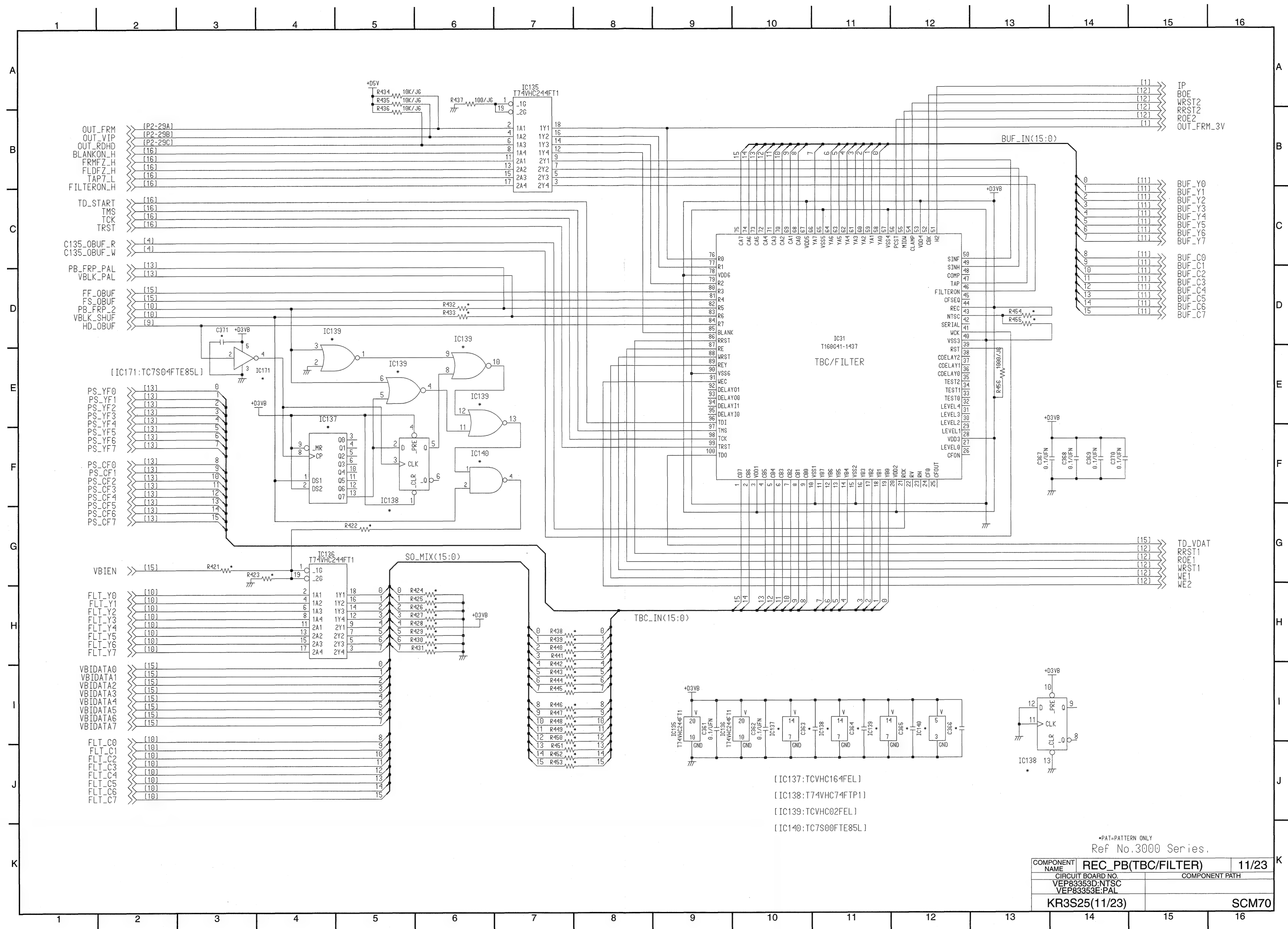




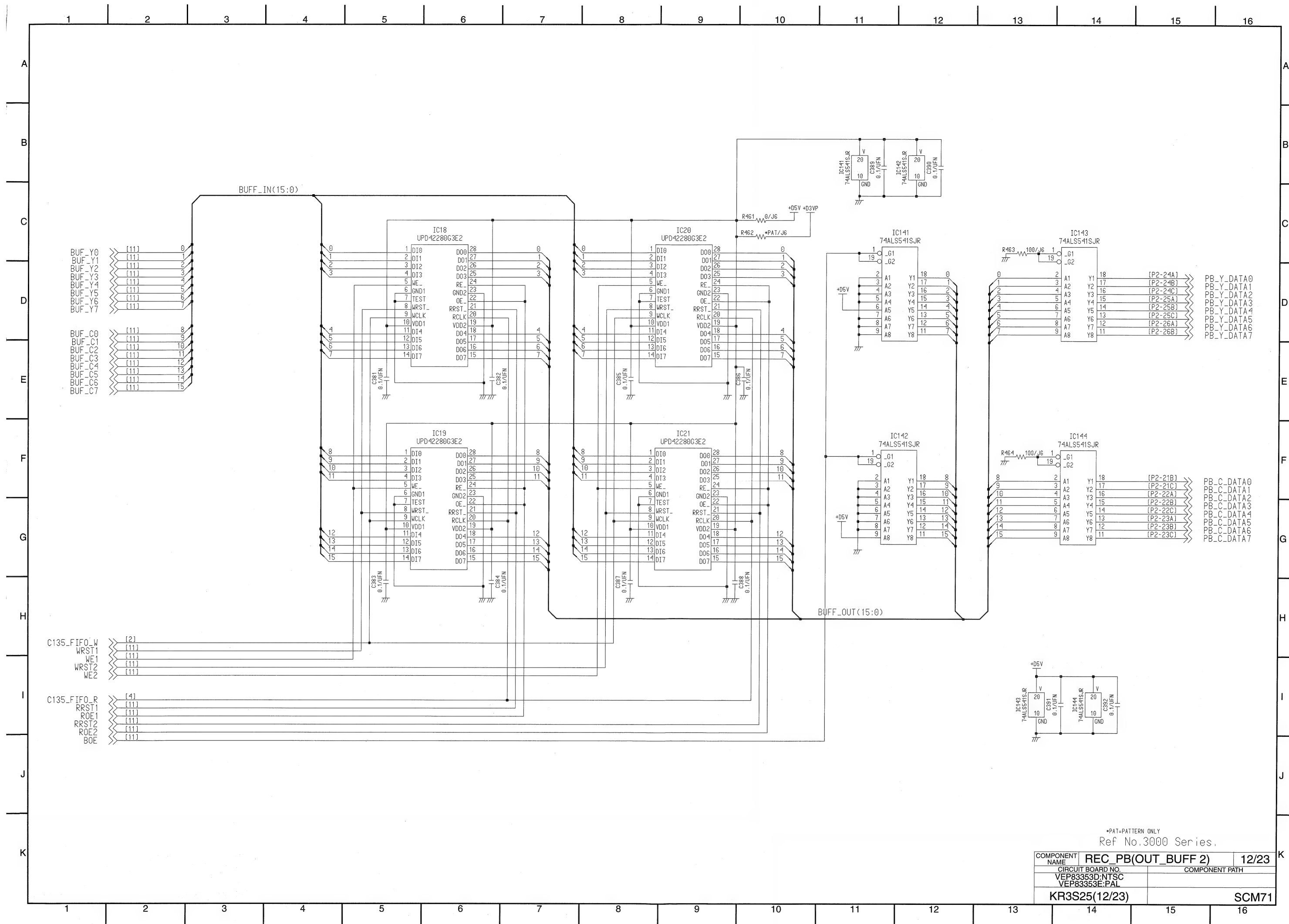


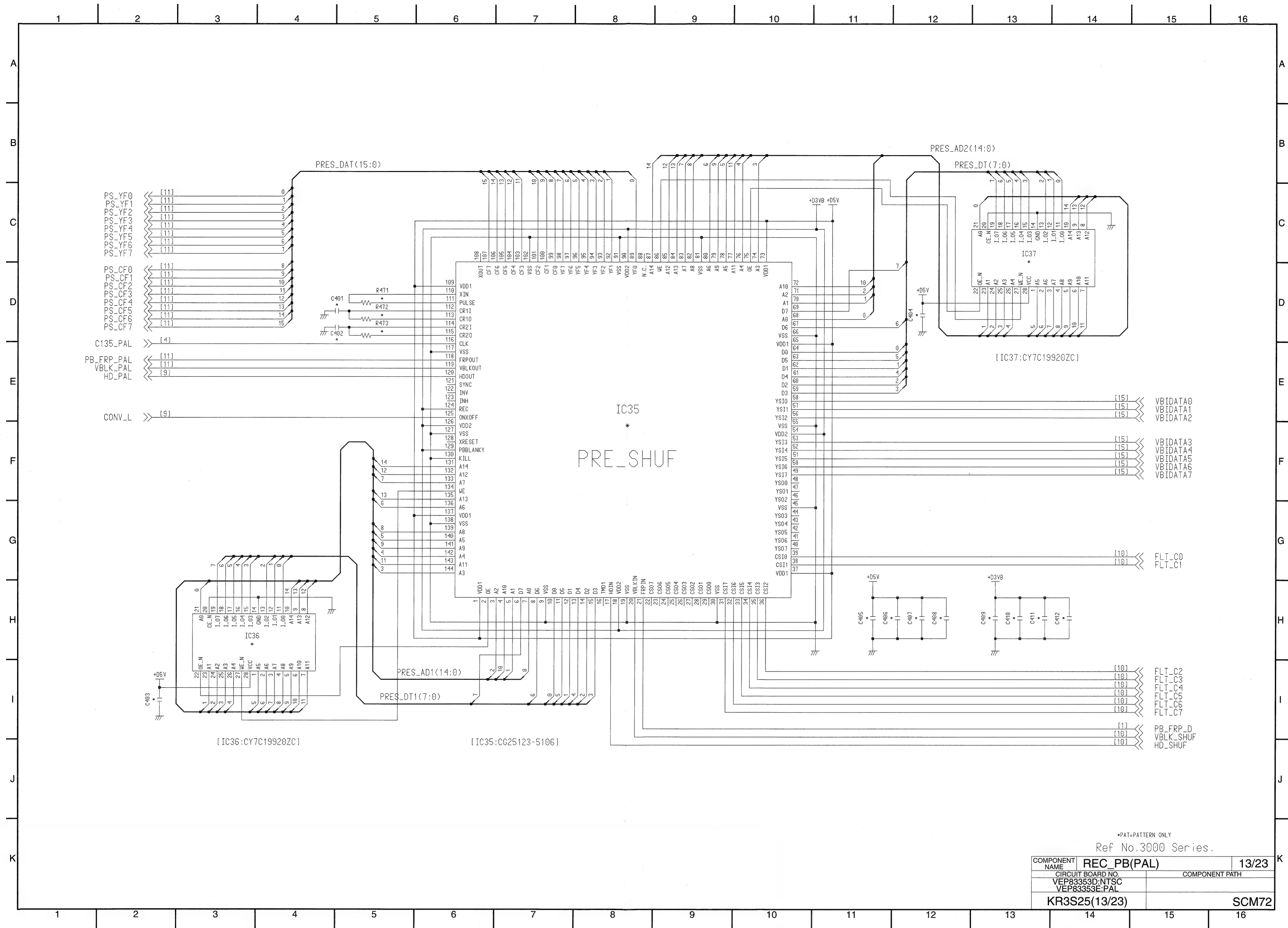






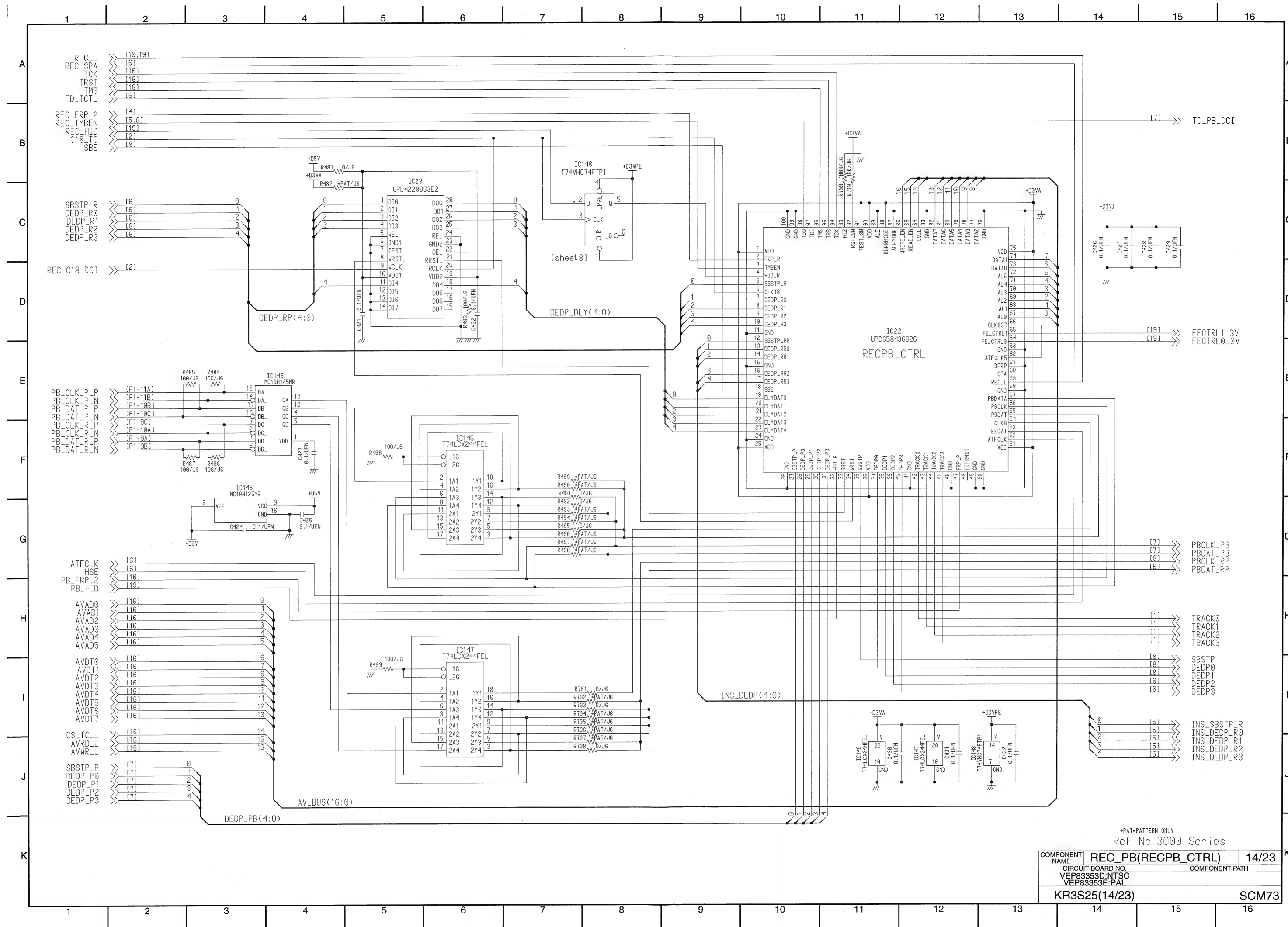
COMPONENT NAME	REC_PB(TBC/FILTER)	11/23
CIRCUIT BOARD NO.	COMPONENT PATH	
VEP83353D:NTSC		
VEP83353E:PAL		
KR3S25(11/23)	SCM70	

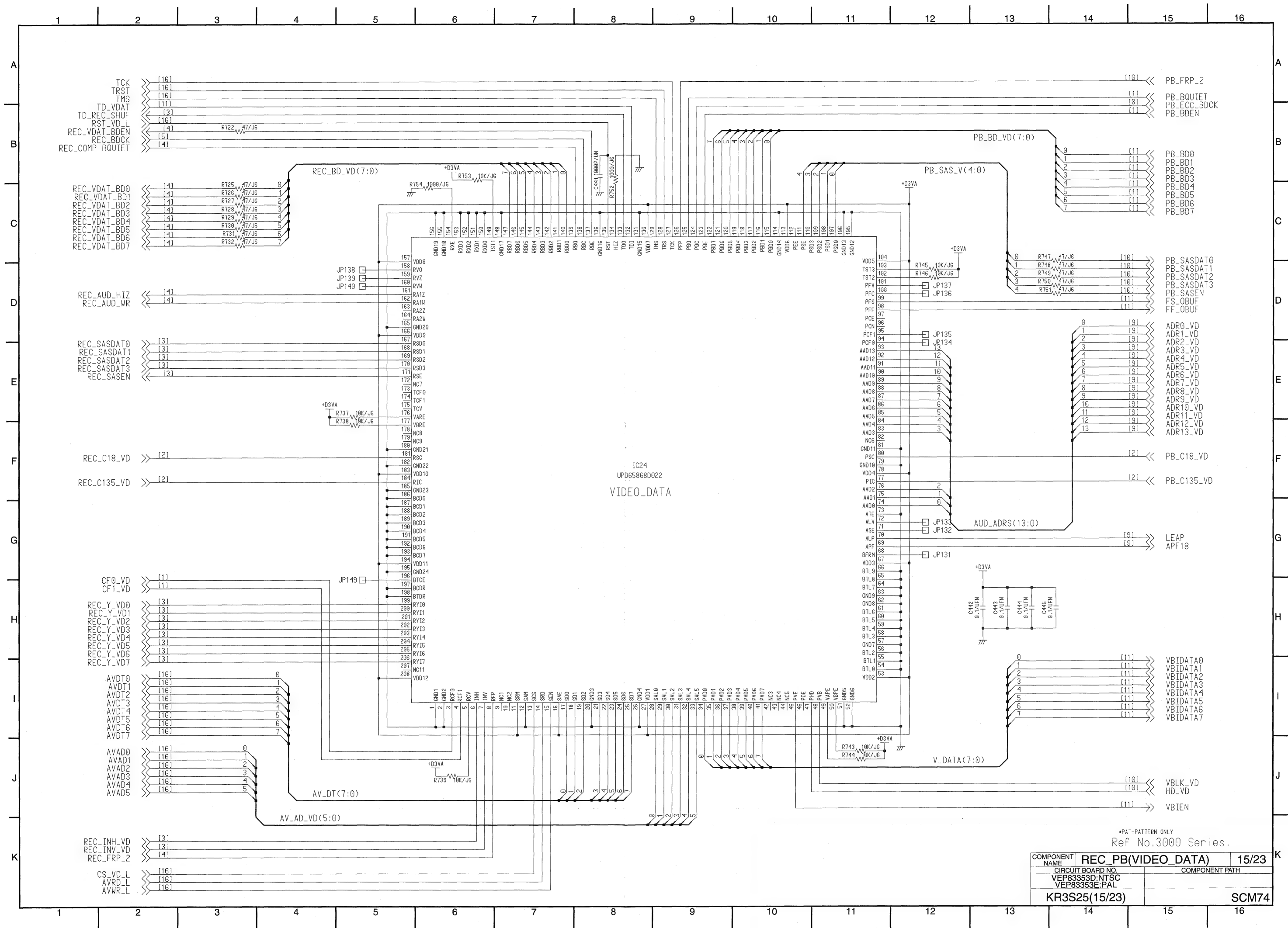


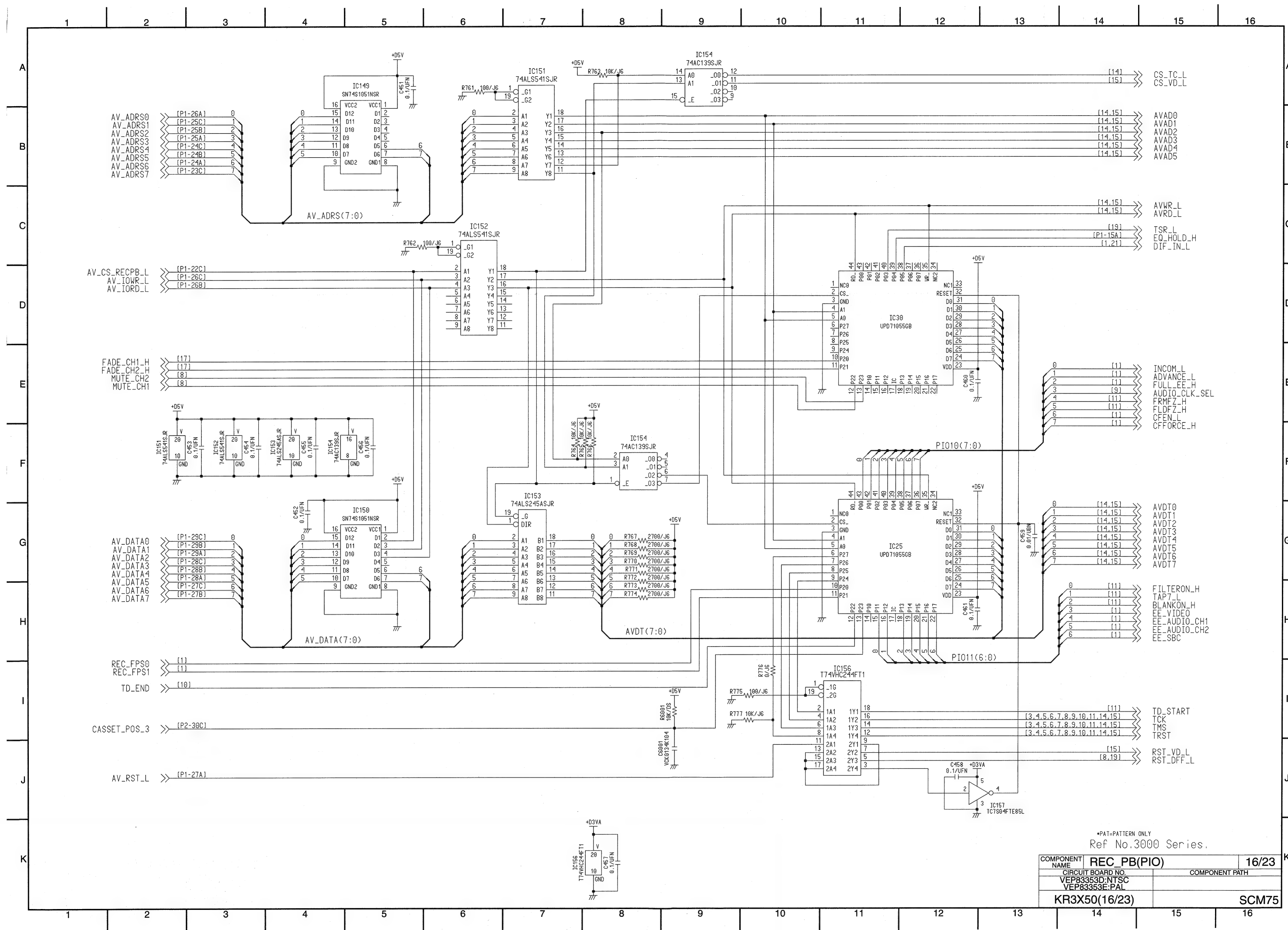


*PAT=PATTERN ONLY
Ref No.3000 Series.

COMPONENT NAME	REC_PB(PAL)	13/23
CIRCUIT BOARD NO.	VEP83353D:NTSC	COMPONENT PATH
	VEP83353E:PAL	
KR3S25(13/23)		SCM72

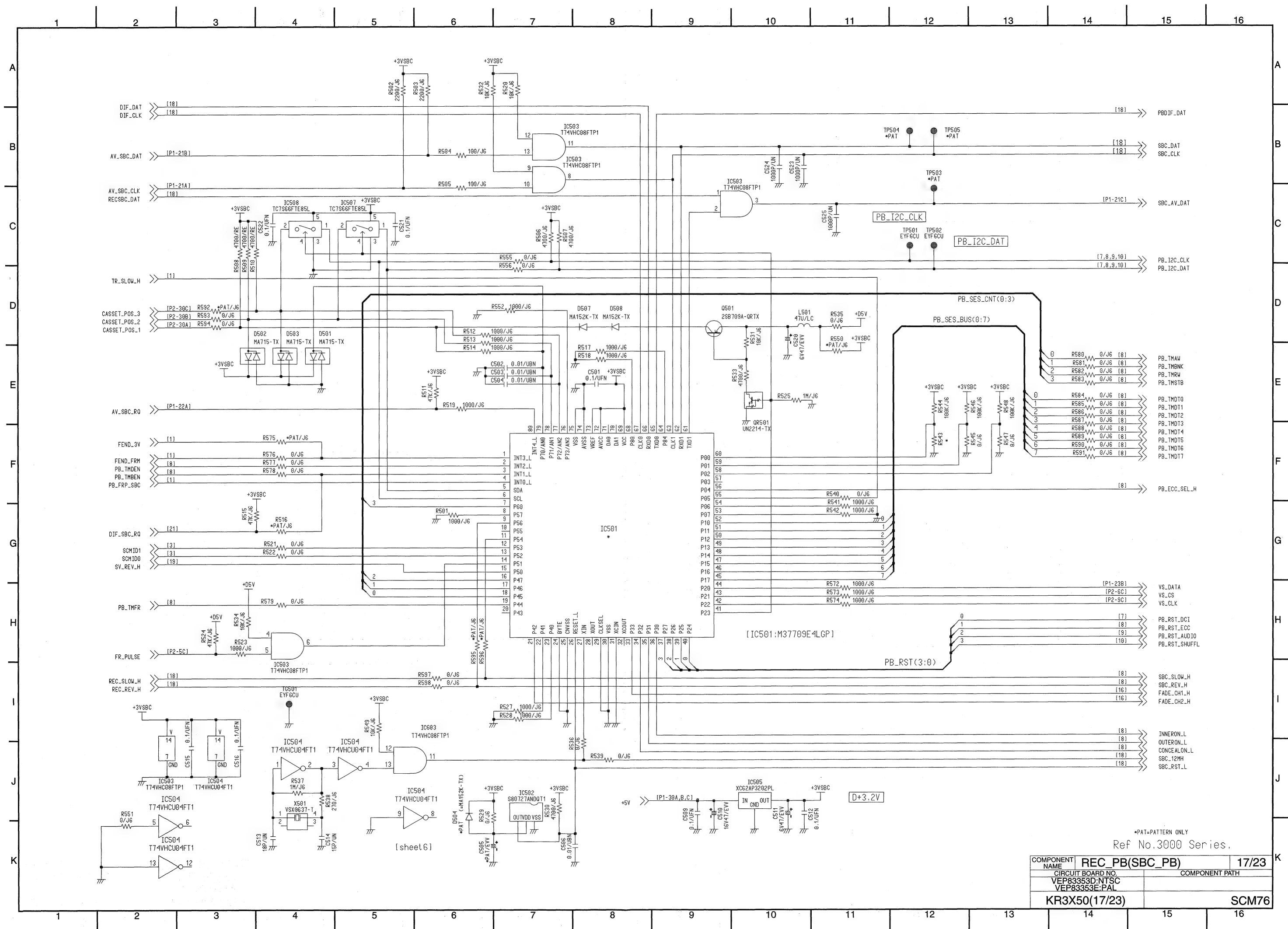






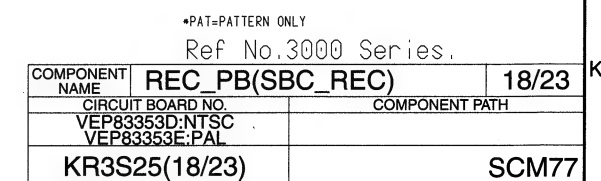
*PAT=PATTERN ONLY
Ref No.3000 Series.

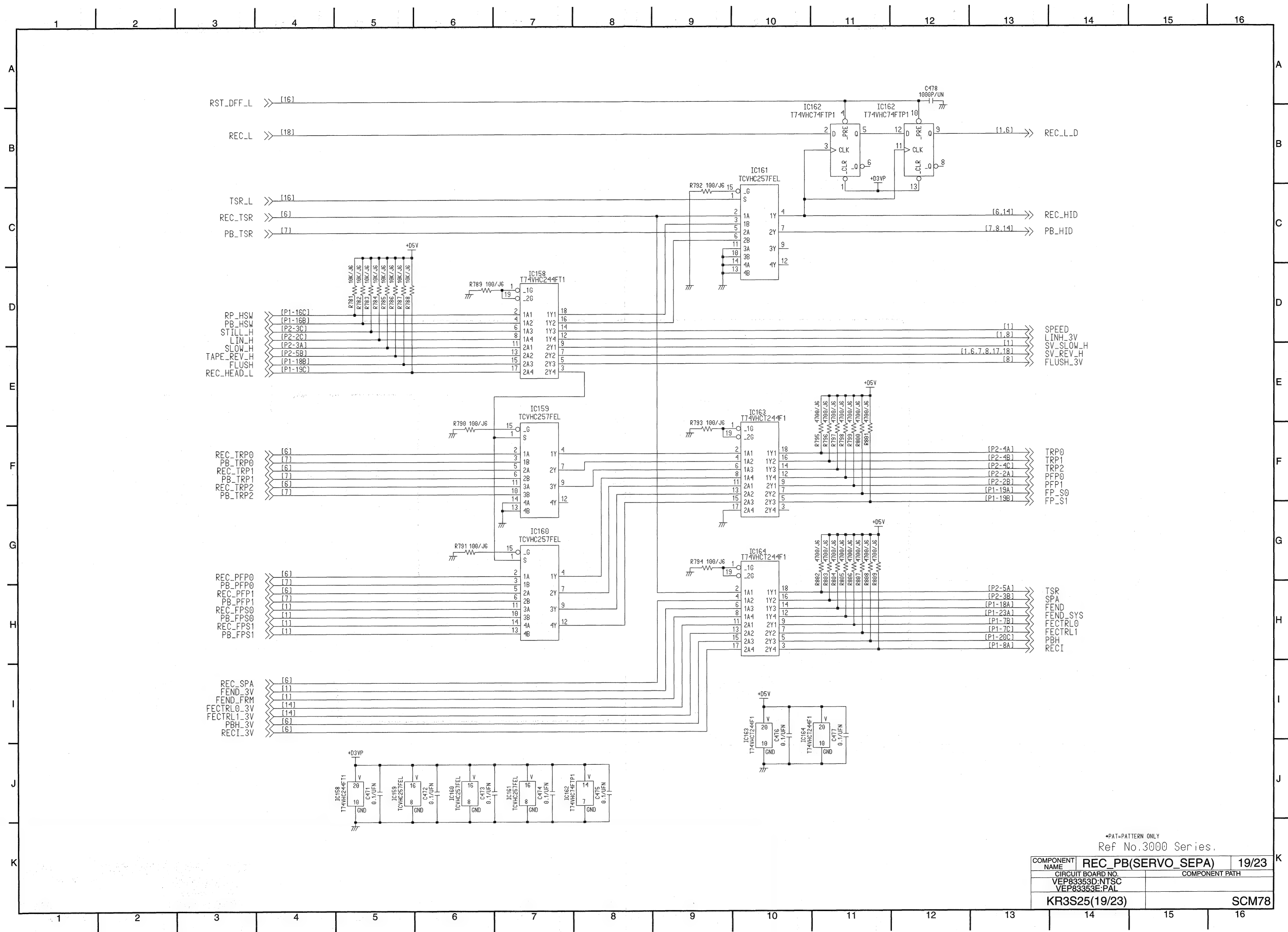
COMPONENT NAME	REC_PB(PIO)	16/23
CIRCUIT BOARD NO.	VEP83353D:NTSC	COMPONENT PATH
	VEP83353E:PAL	
KR3X50(16/23)		SCM75



*PAT=PATTERN ONLY
Ref No.3000 Series.

COMPONENT NAME	REF. NO.	QTY
REC_PB(SBC_PB)	17/23	1
CIRCUIT BOARD NO.	VEP83353D:NTSC	
VEP83353E:PAL		
KR3X50(17/23)	SCM76	





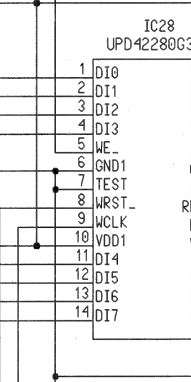
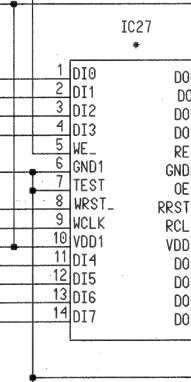
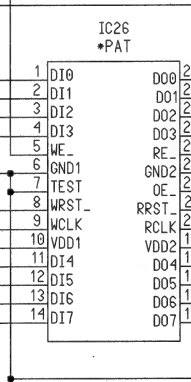
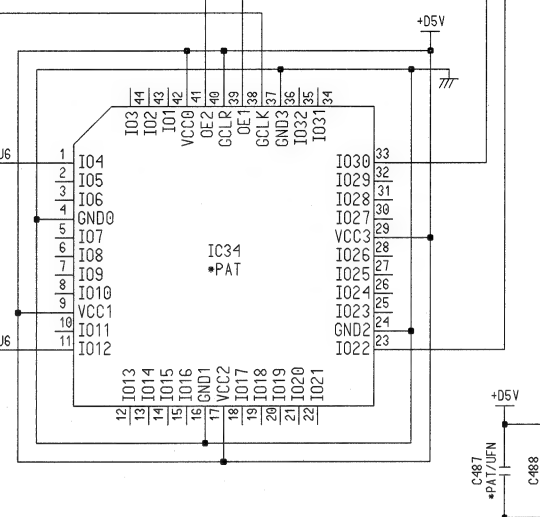
REC_COMP_BQUIET
PB_ECC_BQUIET

BD_REN
BD_WEN1
BD_WEN3

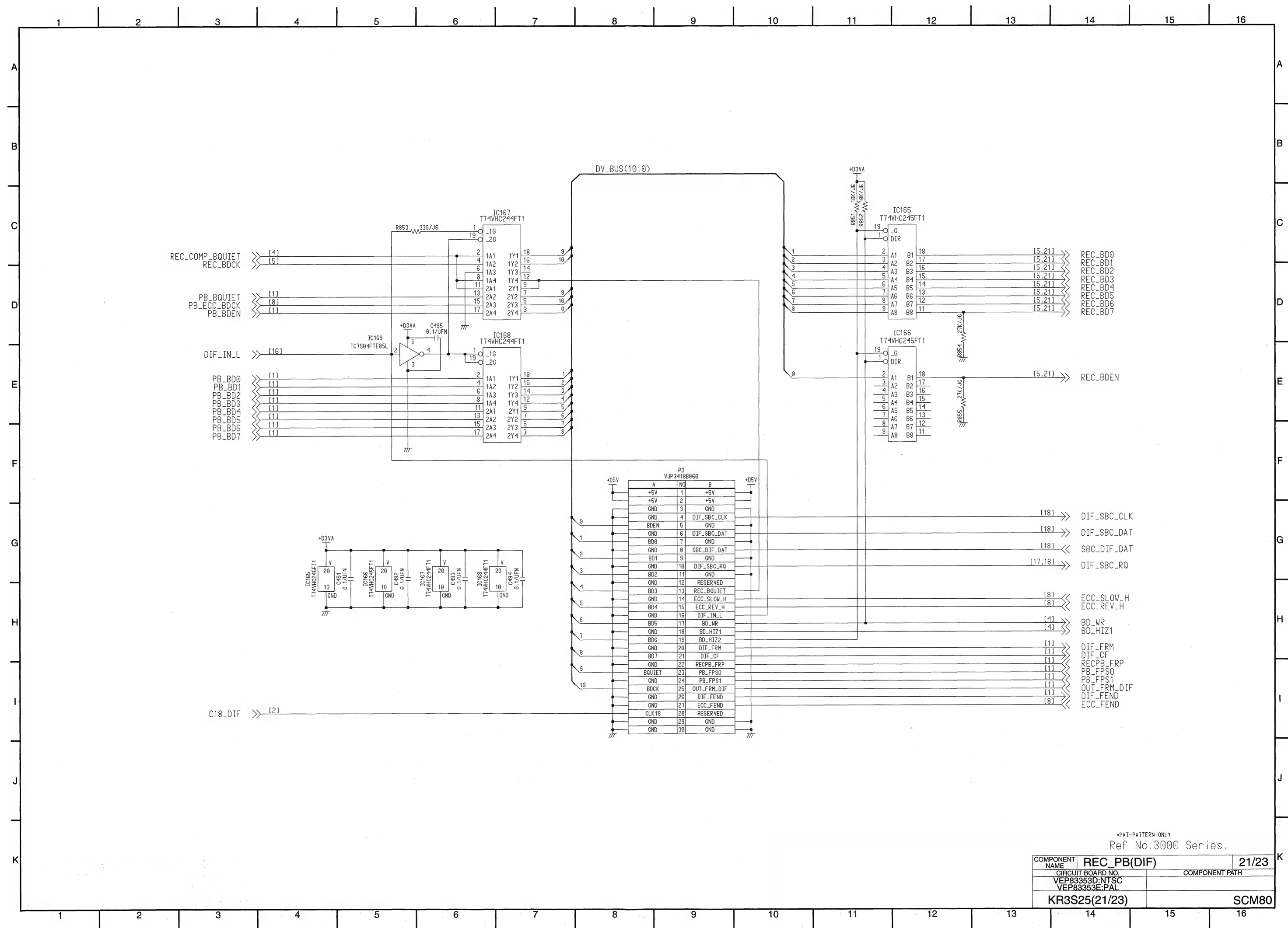
REC_BD0
REC_BD1
REC_BD2
REC_BD3

REC_BD4
REC_BD5
REC_BD6
REC_BD7

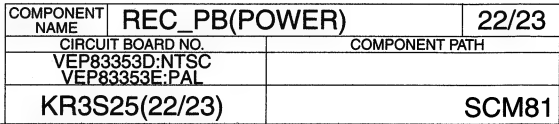
PB_C18_EE
BD_WRST3
BD_WRST1
BD_RRST3
BD_RRST1

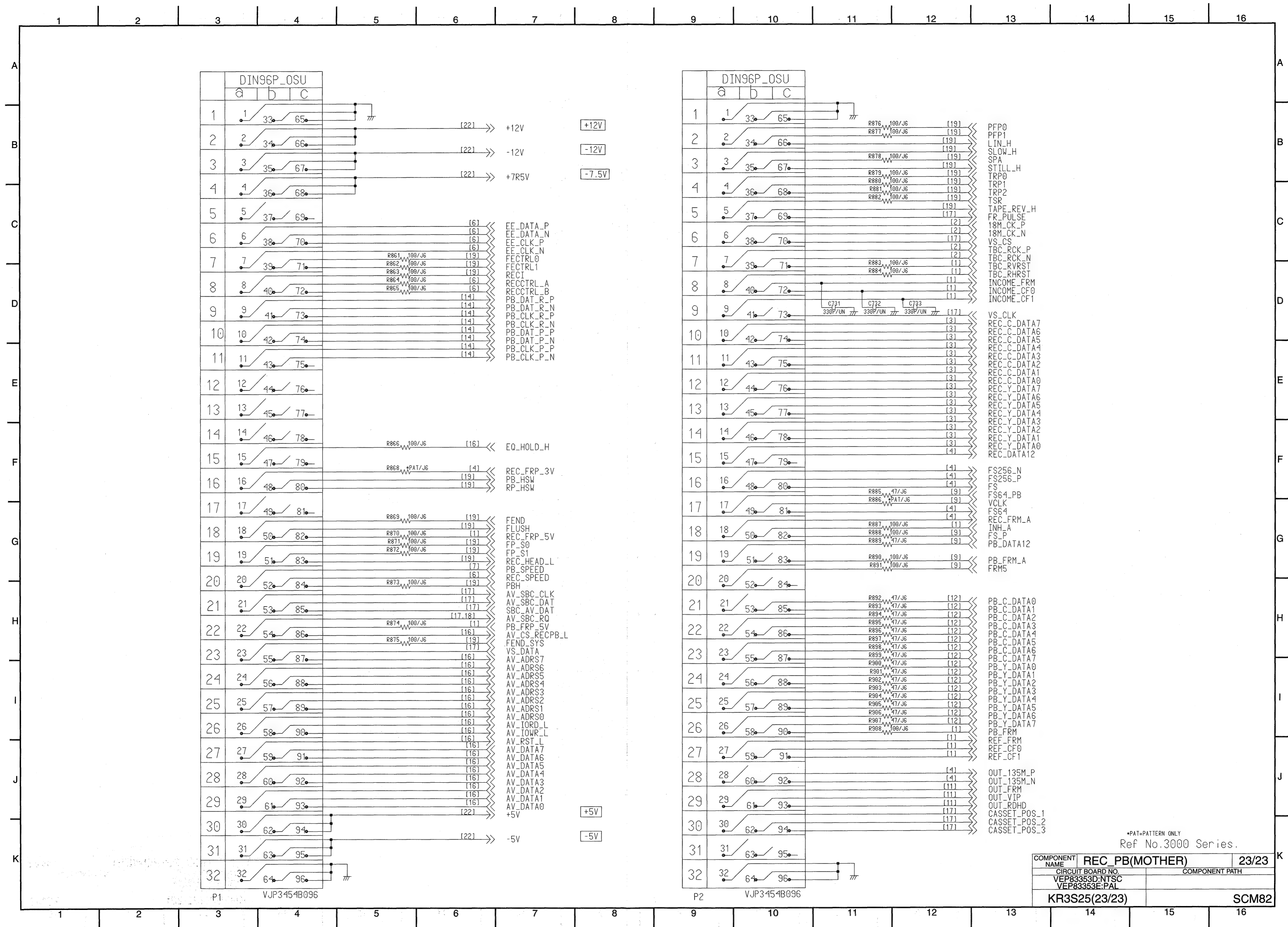


*PAT=PATTERN ONLY Ref No.3000 Series.		
COMPONENT NAME	REC_PB(DVC RETERN)	20/23
CIRCUIT BOARD NO.	VEP83353D:NTSC	COMPONENT PATH
	VEP83353E:PAL	
KR3S25(20/23)		SCM79



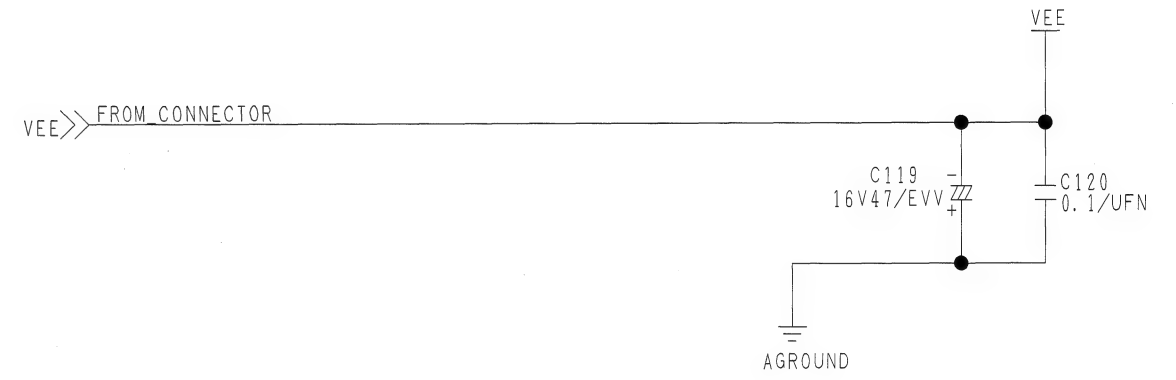
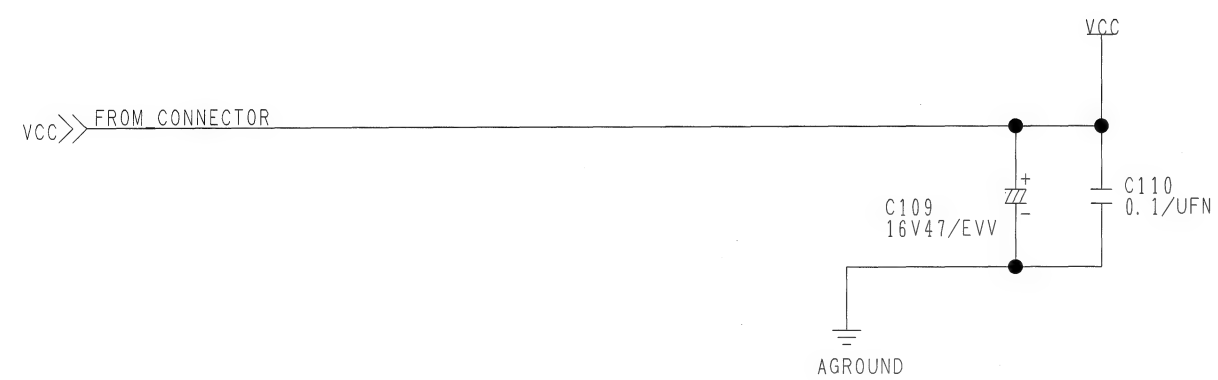
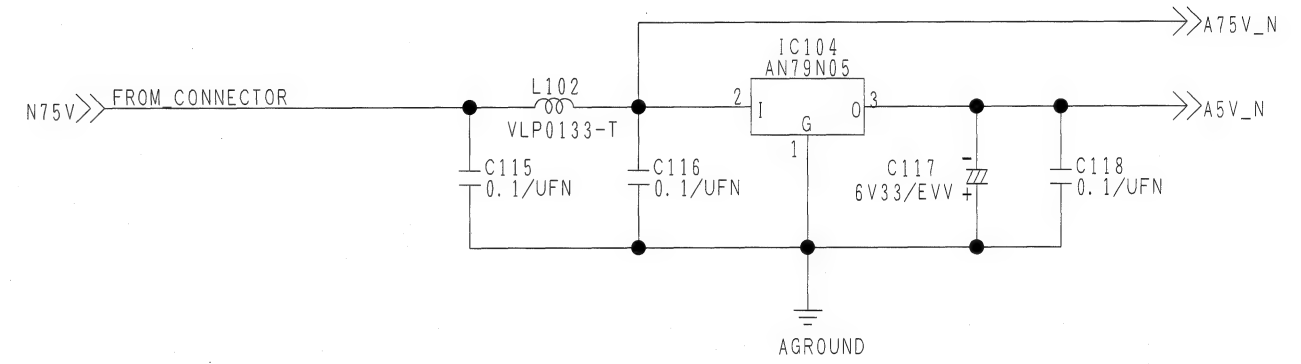
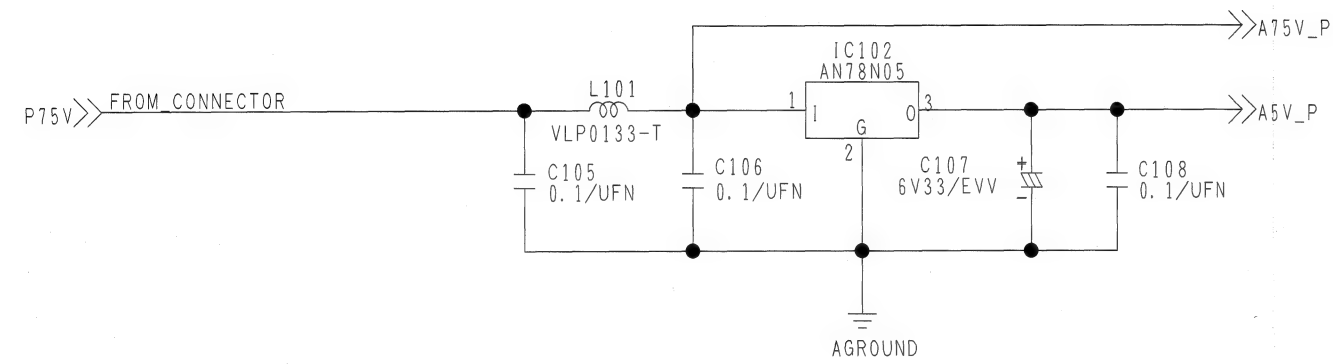
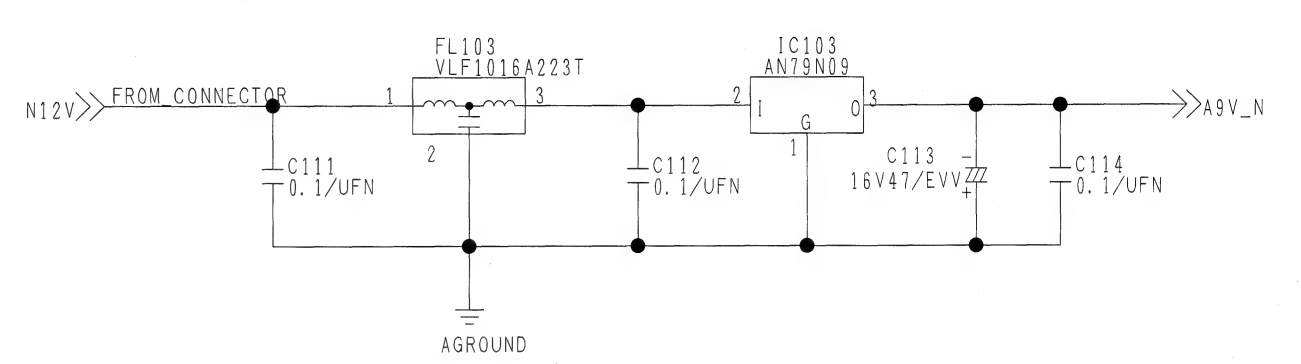
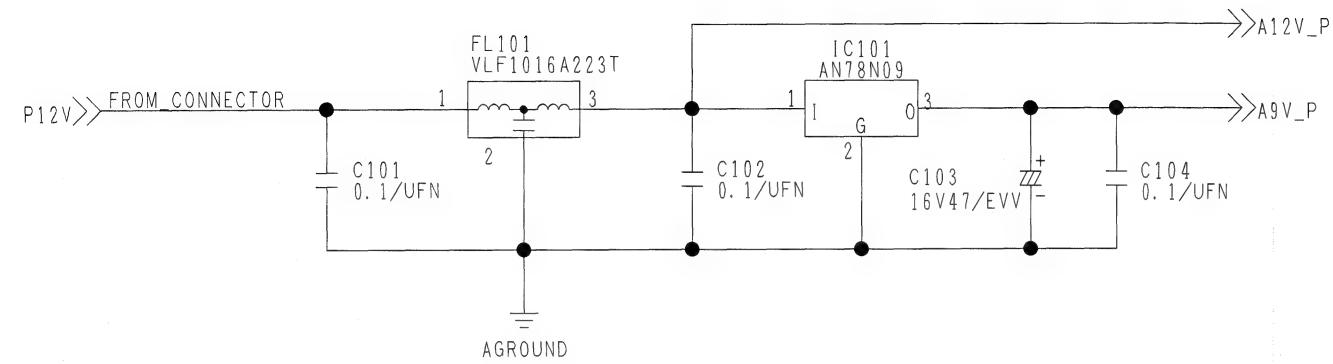
COMPONENT NAME	REC_PB(DIF)	21/23	K
CIRCUIT BOARD NO.	COMPONENT PATH		
VEP83353D:NTSC VEP83353E:PAL			
KR3S25(21/23)	SCM80		





*PAT=PATTERN ONLY
Ref No.3000 Series.

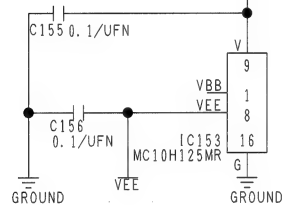
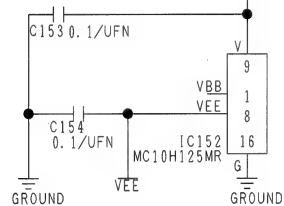
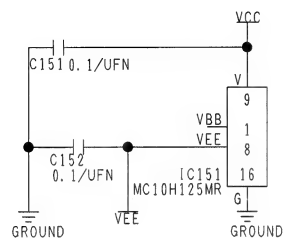
COMPONENT NAME	REC_PB(MOTHER)	23/23
CIRCUIT BOARD NO.	VEP83353D:NTSC	COMPONENT PATH
	VEP83353E:PAL	
KR3S25(23/23)		SCM82



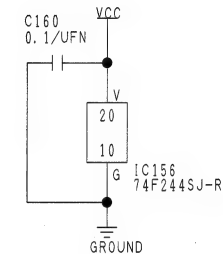
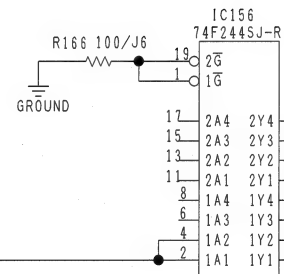
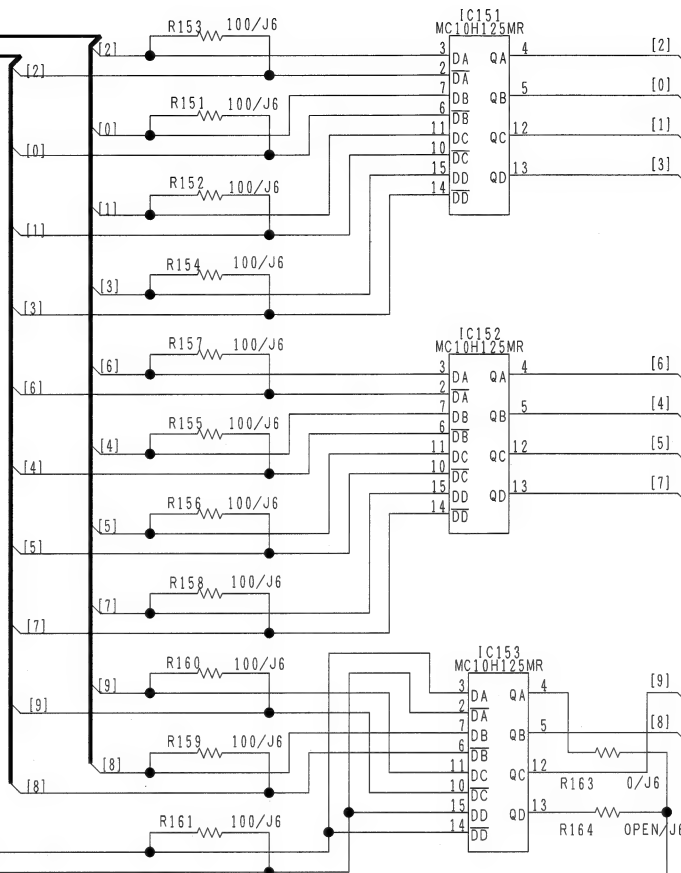
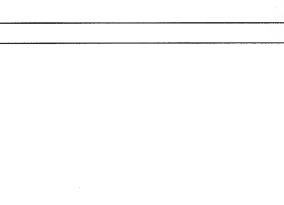
COMPONENT NAME	V IN(NTSC) 450 only	02/20
CIRCUIT BOARD NO.	COMPONENT PATH	
VEP83397A: JAPAN only		
VEP83397B: 450P only		
KR3T80(2/20)	SCM84	

YC_IN_P[0-9] FROM CONNECTOR
YC_IN_N[0-9] FROM CONNECTOR

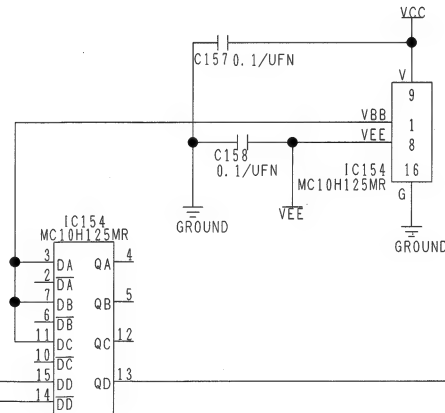
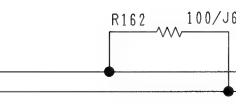
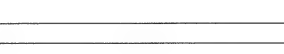
YC_IN_P[0-9]
YC_IN_N[0-9]



YC_IN_27M_P FROM CONNECTOR
YC_IN_27M_N FROM CONNECTOR



TBC_RCK_P FROM CONNECTOR
TBC_RCK_N FROM CONNECTOR

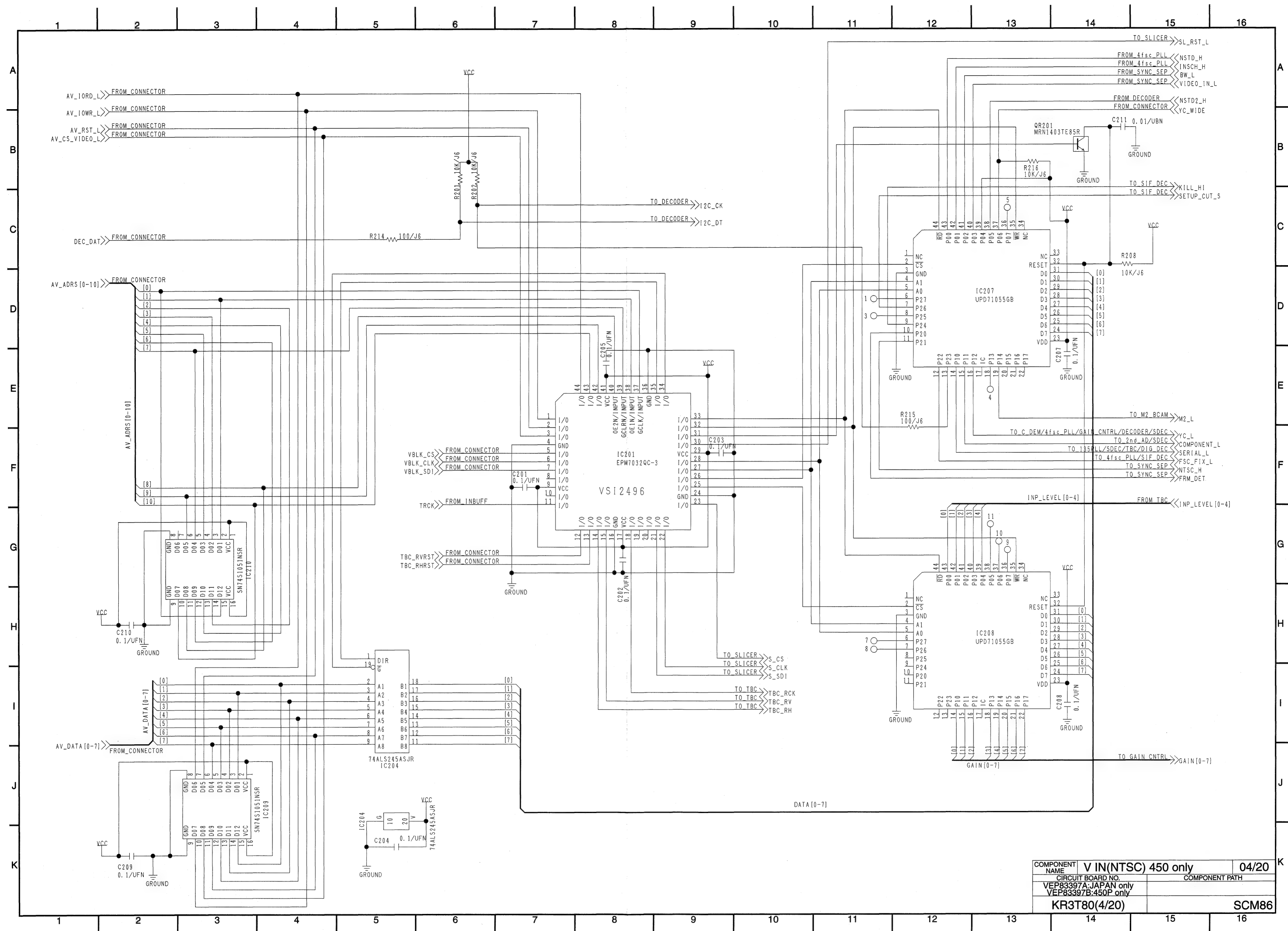


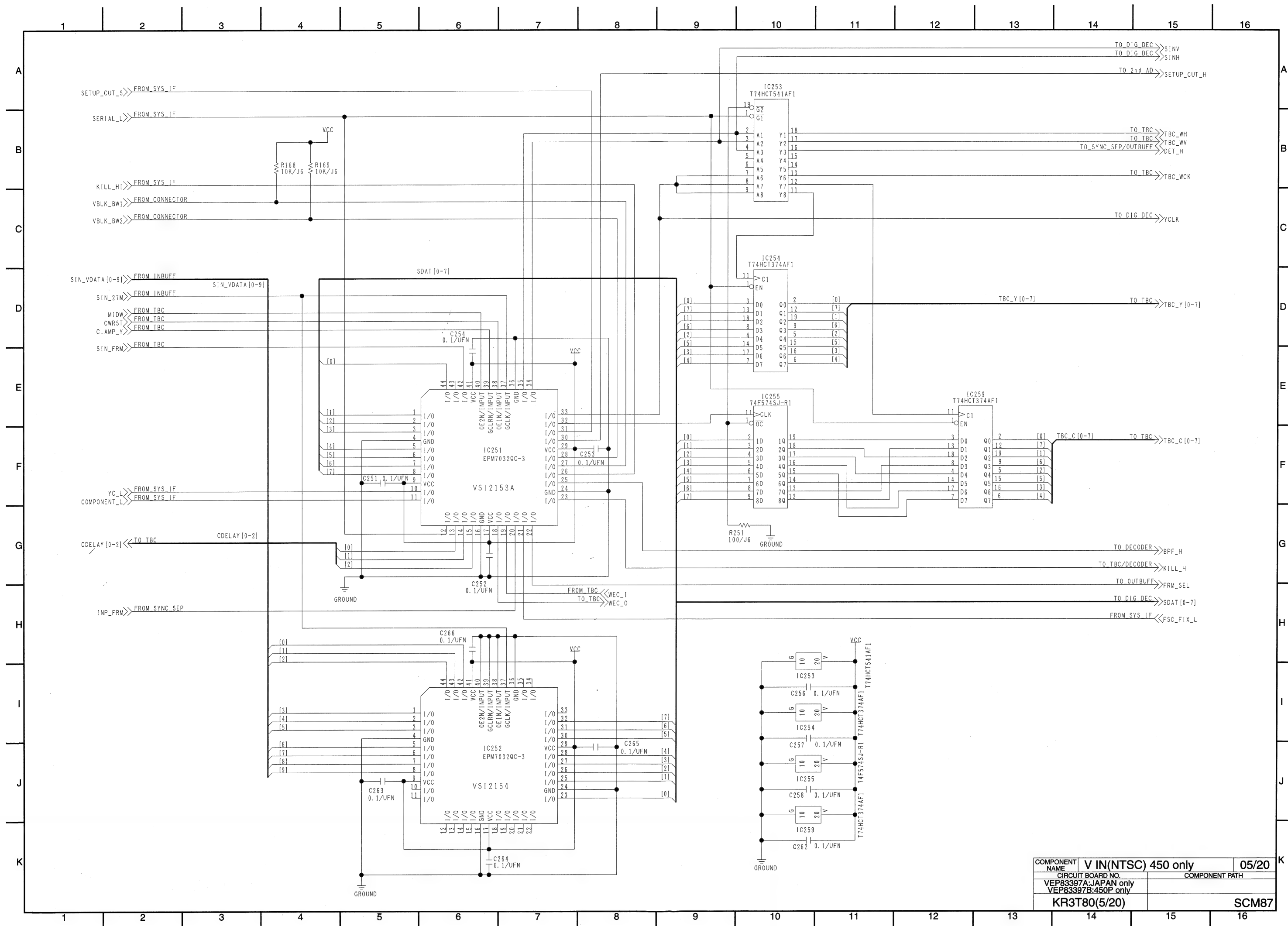
SIN_VDATA[0-9] TO SIF_DEC SIN_VDATA[0-9]

TO_SIF_DEC SIN_27M

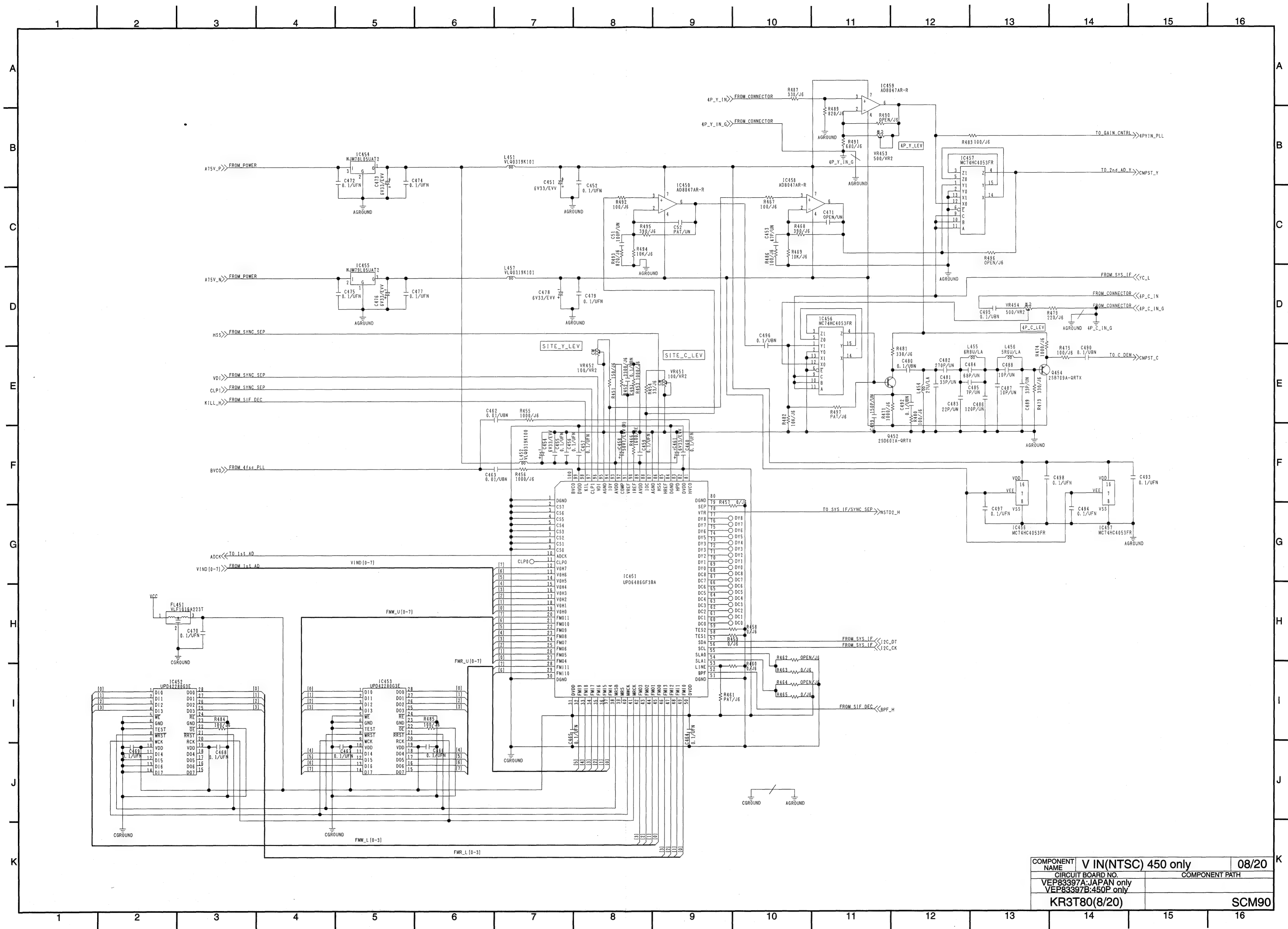
TO_SYS_IF TRCK

COMPONENT NAME	V IN(NTSC) 450 only	03/20
CIRCUIT BOARD NO.	VEP83397A: JAPAN only	COMPONENT PATH
	VEP83397B: 450P only	
	KR3T80(3/20)	SCM85

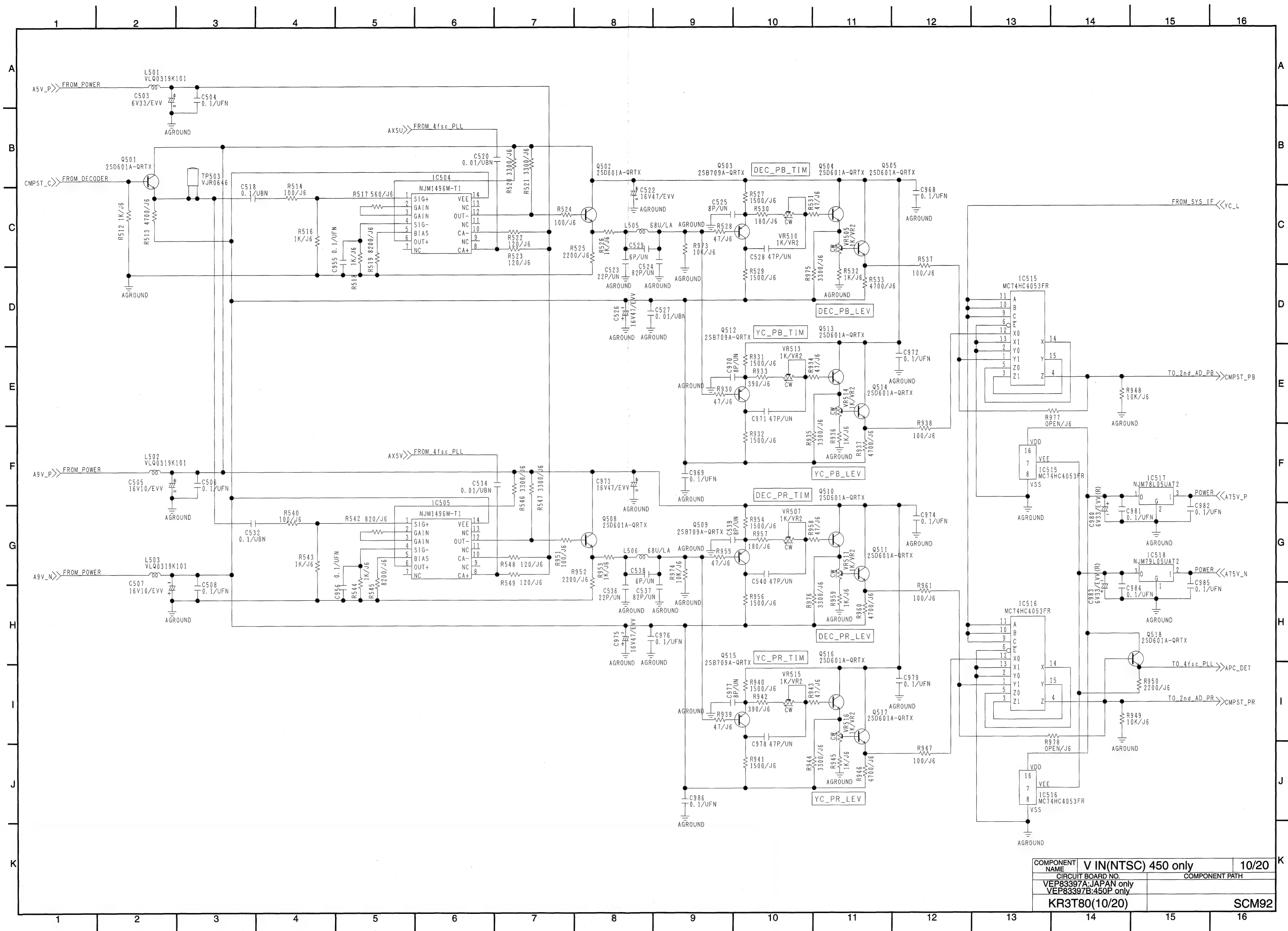




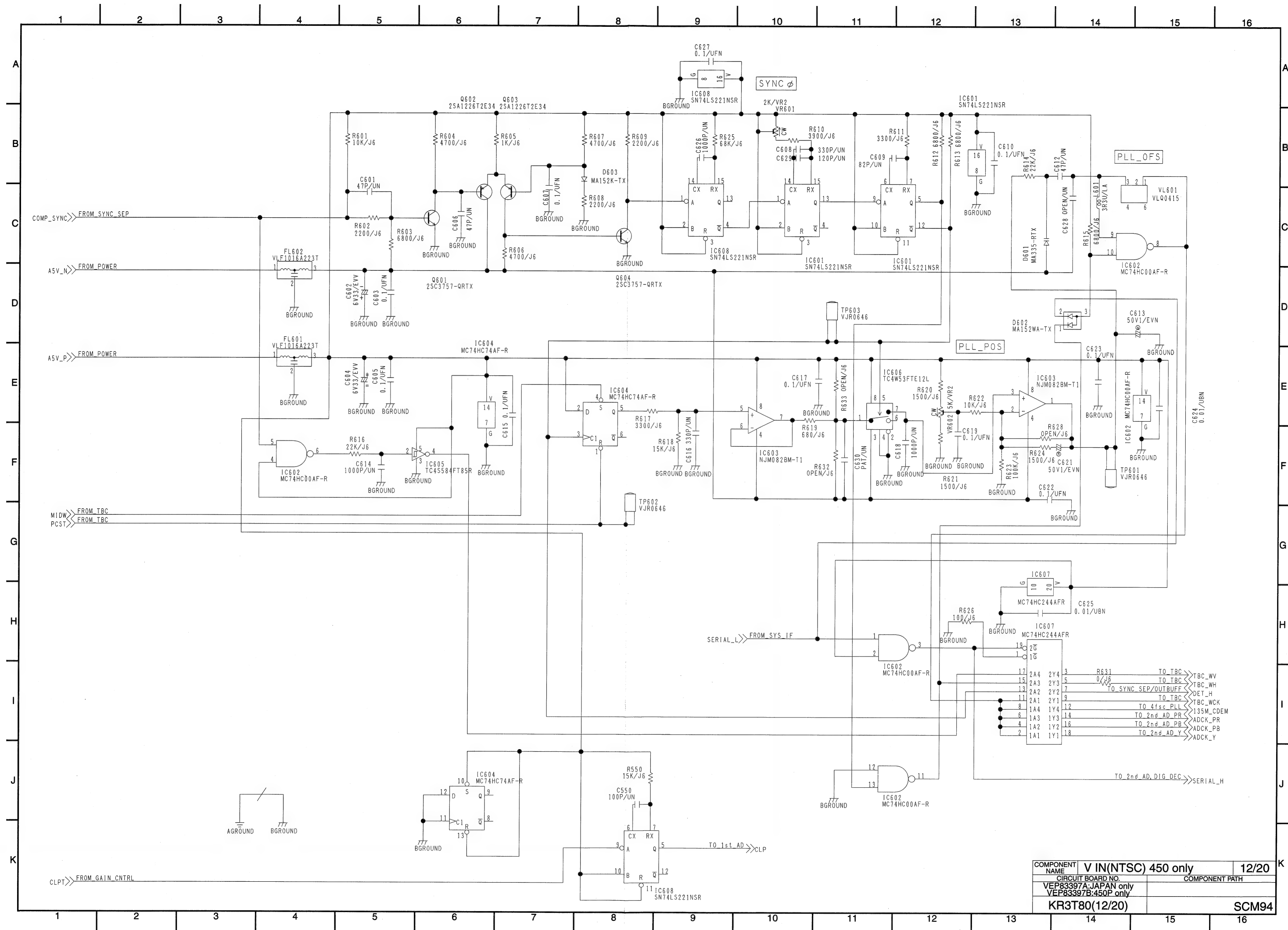
COMPONENT NAME	V IN(NTSC) 450 only	05/20
CIRCUIT BOARD NO.	COMPONENT PATH	
VEP83397A:JAPAN only VEP83397B:450P only		
KR3T80(5/20)	SCM87	

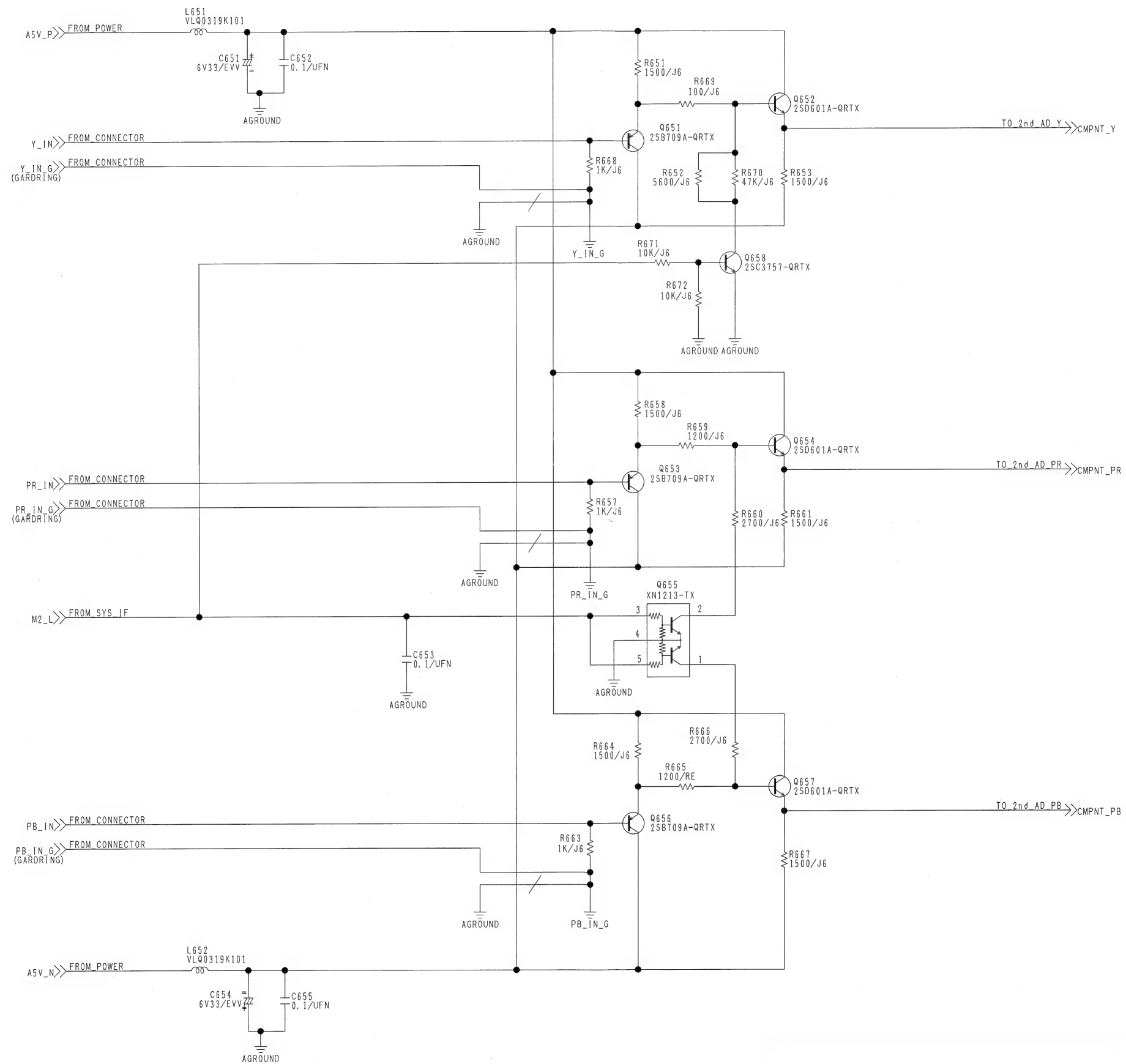


COMPONENT NAME	V IN(NTSC) 450 only	08/20
CIRCUIT BOARD NO.	VEP83397A:JAPAN only	COMPONENT PATH
	VEP83397B:450P only	
	KR3T80(8/20)	SCM90

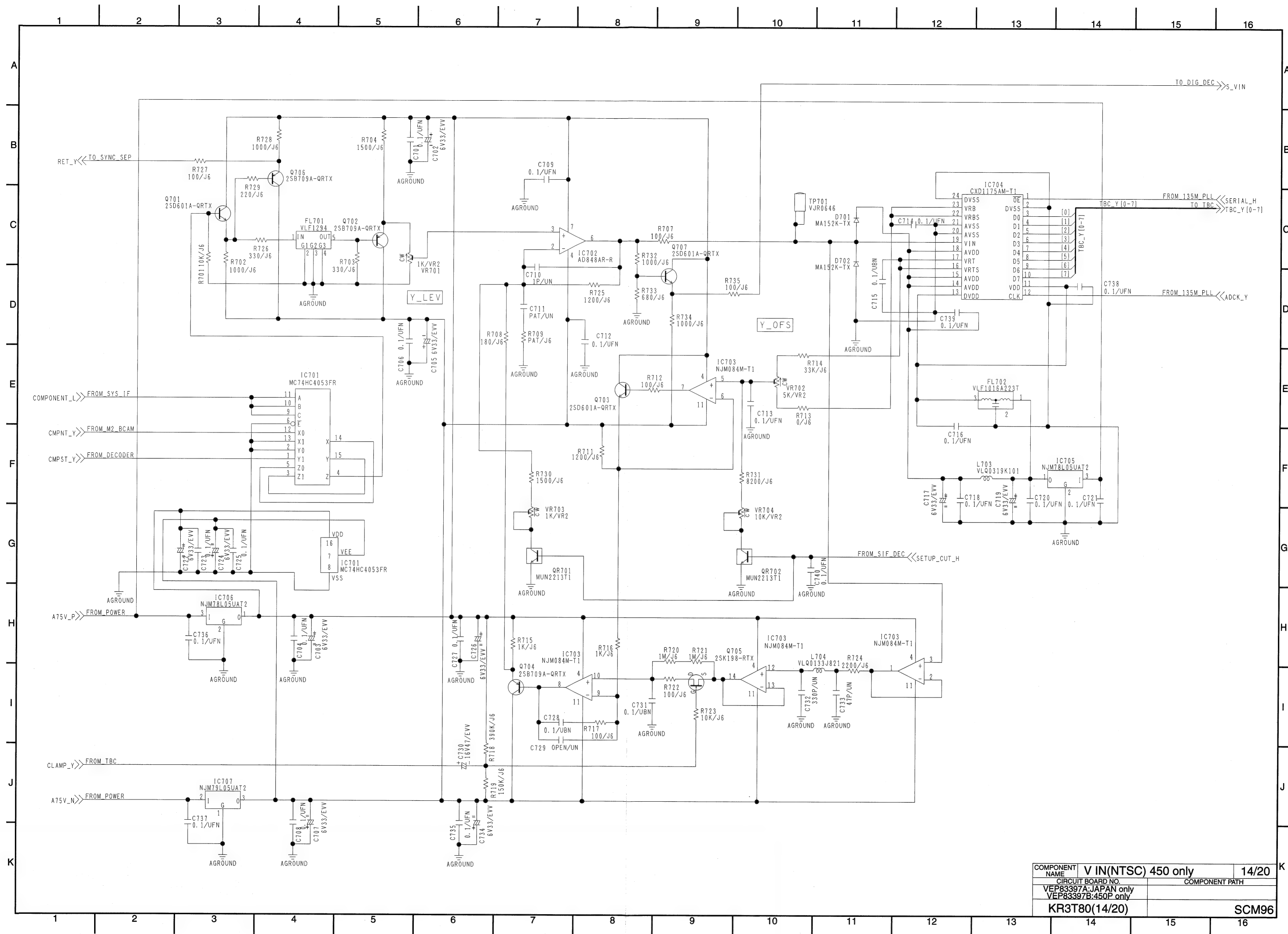


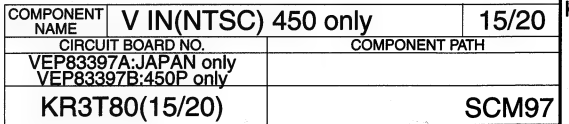
COMPONENT NAME	V IN(NTSC) 450 only	10/20
CIRCUIT BOARD NO.	VEP83397A-JAPAN only	COMPONENT PATH
	VEP83397B-450P only	
	KR3T80(10/20)	SCM92

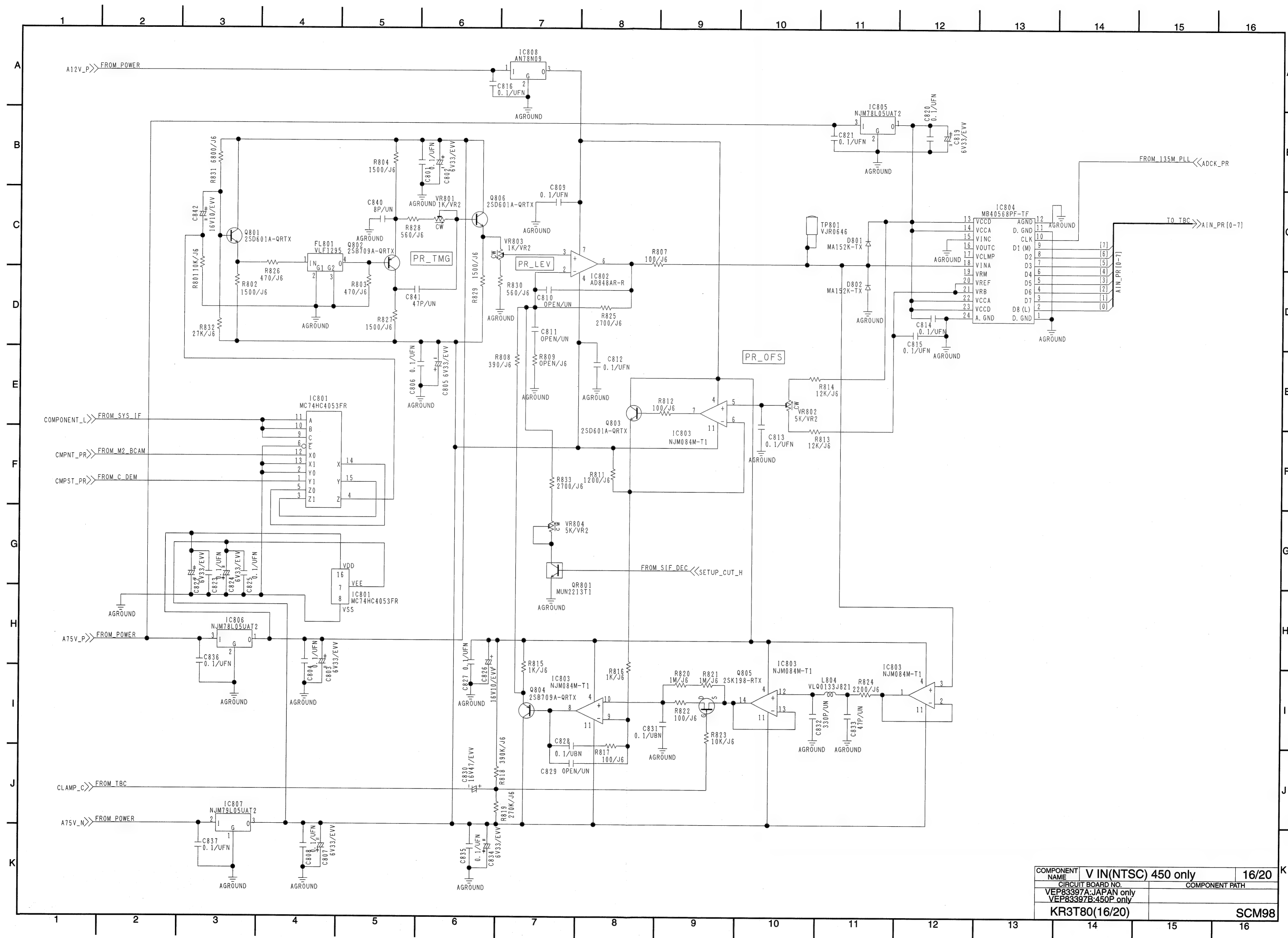




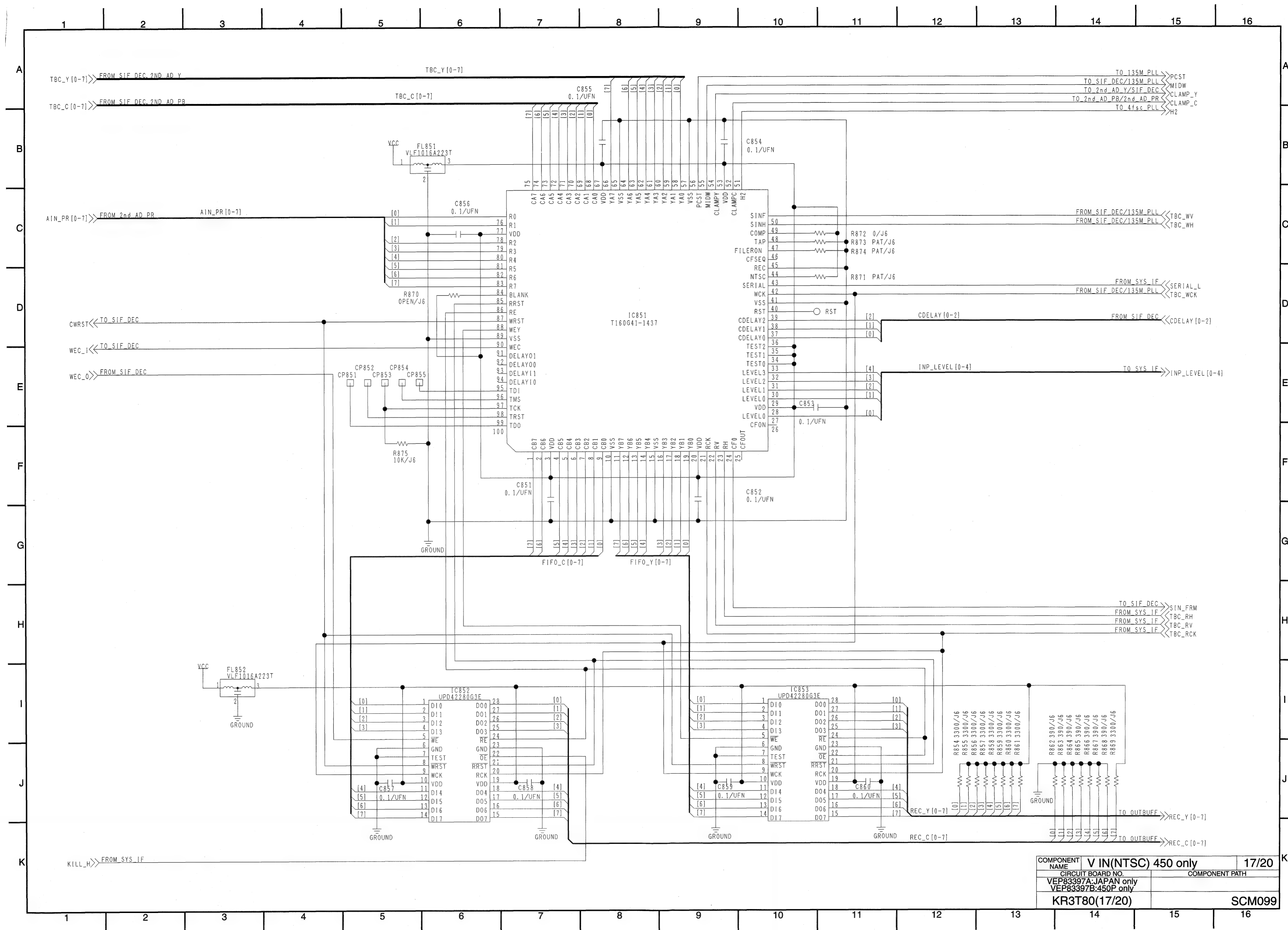
COMPONENT NAME	V IN(NTSC) 450 only	13/20
CIRCUIT BOARD NO.	VEP83397A: JAPAN only	COMPONENT PATH
	VEP83397B: 450P only	
	KR3T80(13/20)	SCM95

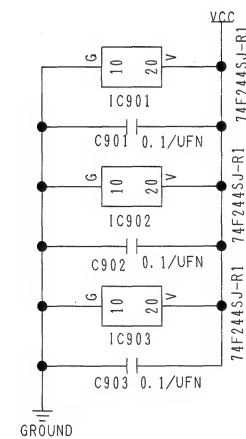
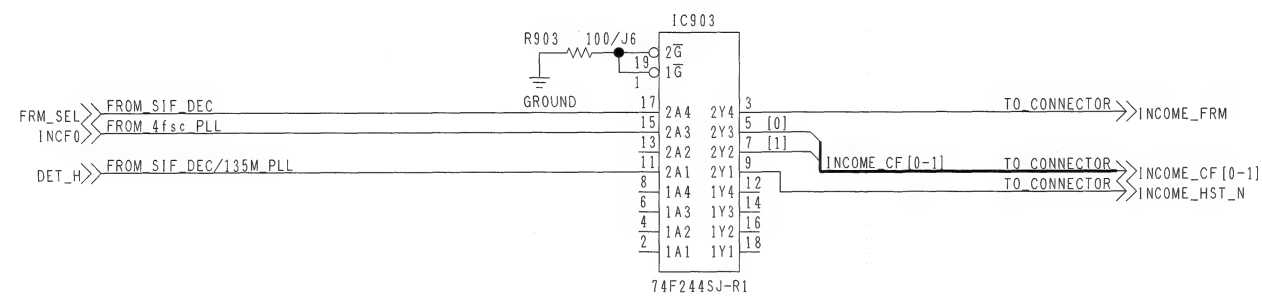
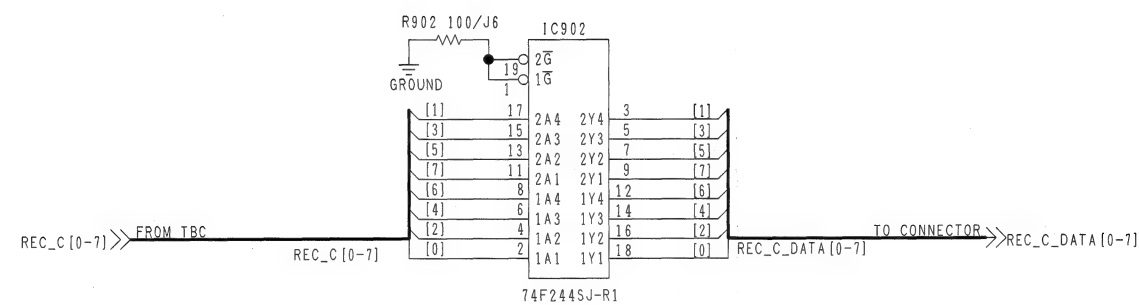
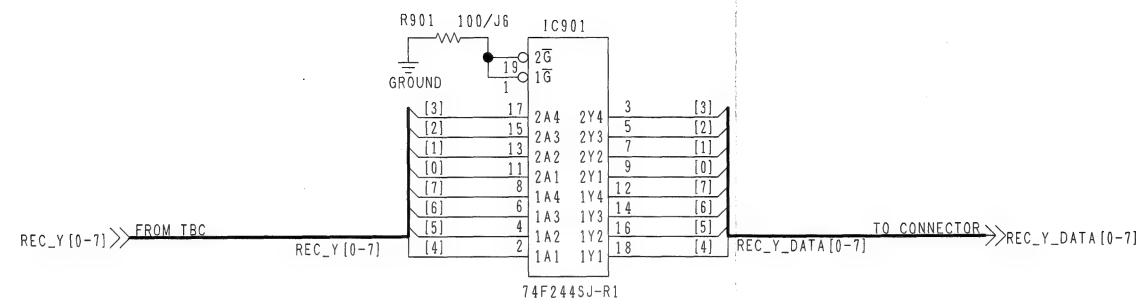




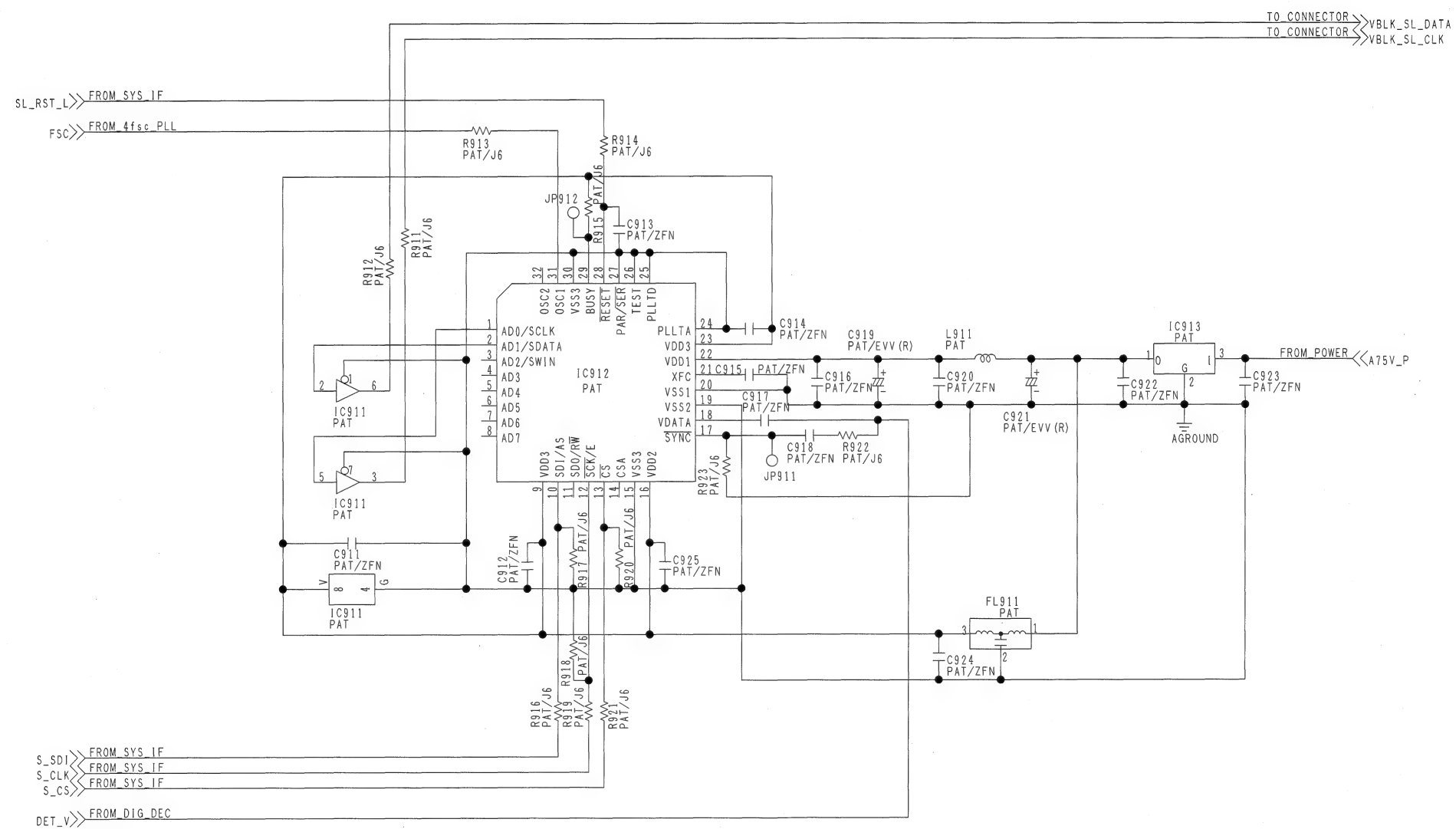


COMPONENT NAME	V IN(NTSC) 450 only	16/20
CIRCUIT BOARD NO.	VEP83397A: JAPAN only	COMPONENT PATH
	VEP83397B: 450P only	
KR3T80(16/20)		SCM98

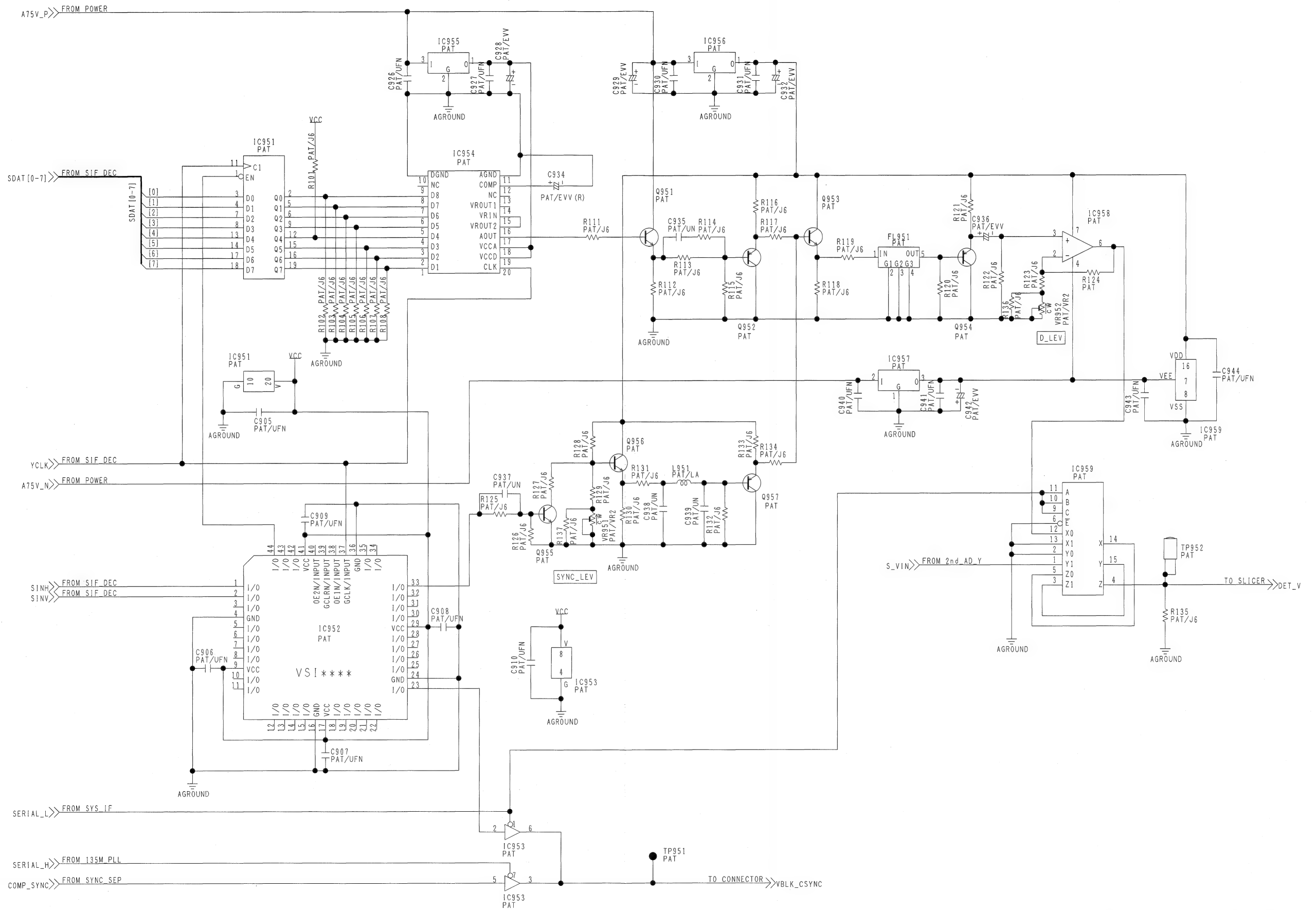




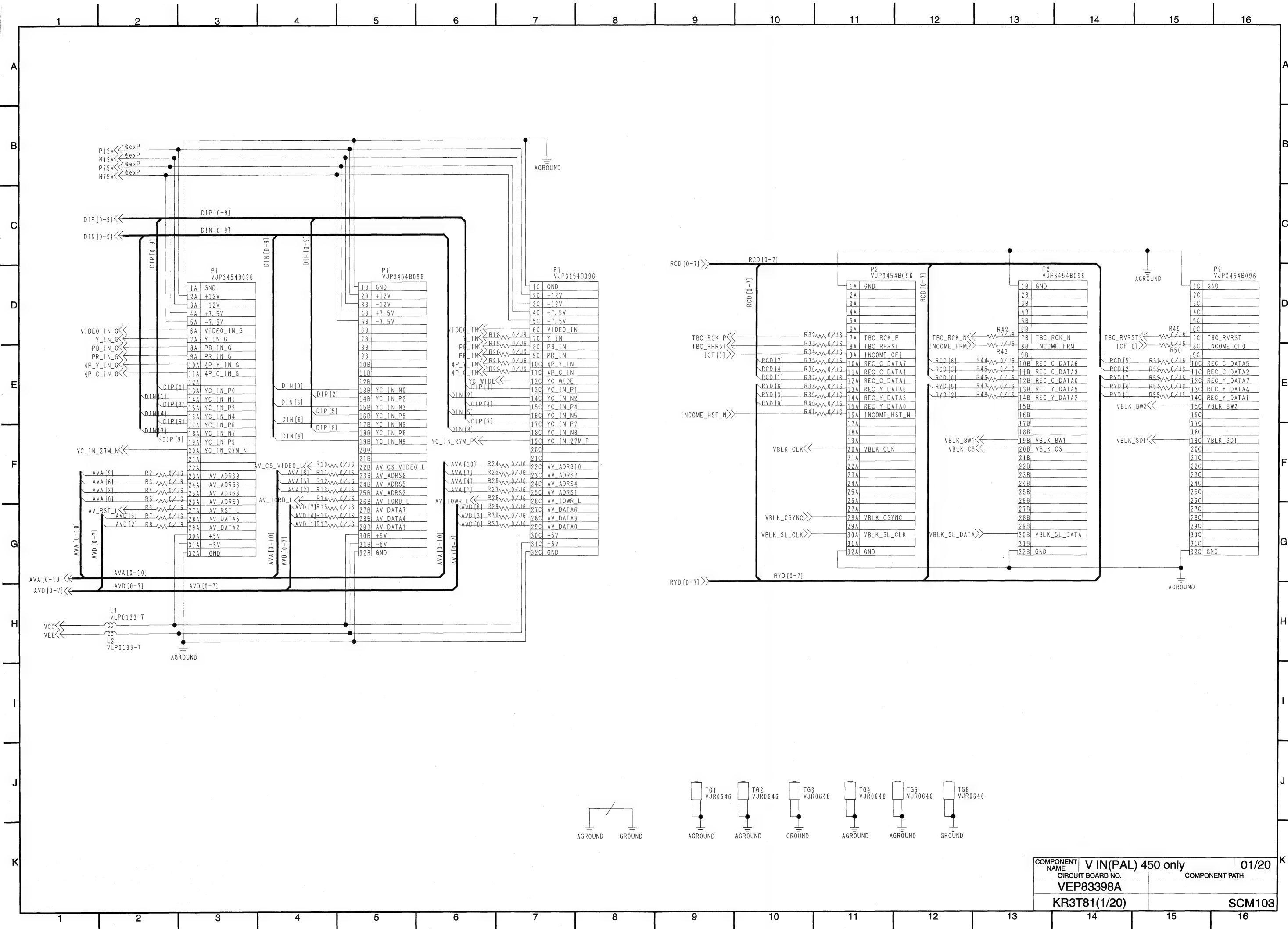
COMPONENT NAME	V IN(NTSC) 450 only	18/20
CIRCUIT BOARD NO.	COMPONENT PATH	
VEP83397A: JAPAN only		
VEP83397B: 450P only		
KR3T80(18/20)	SCM100	



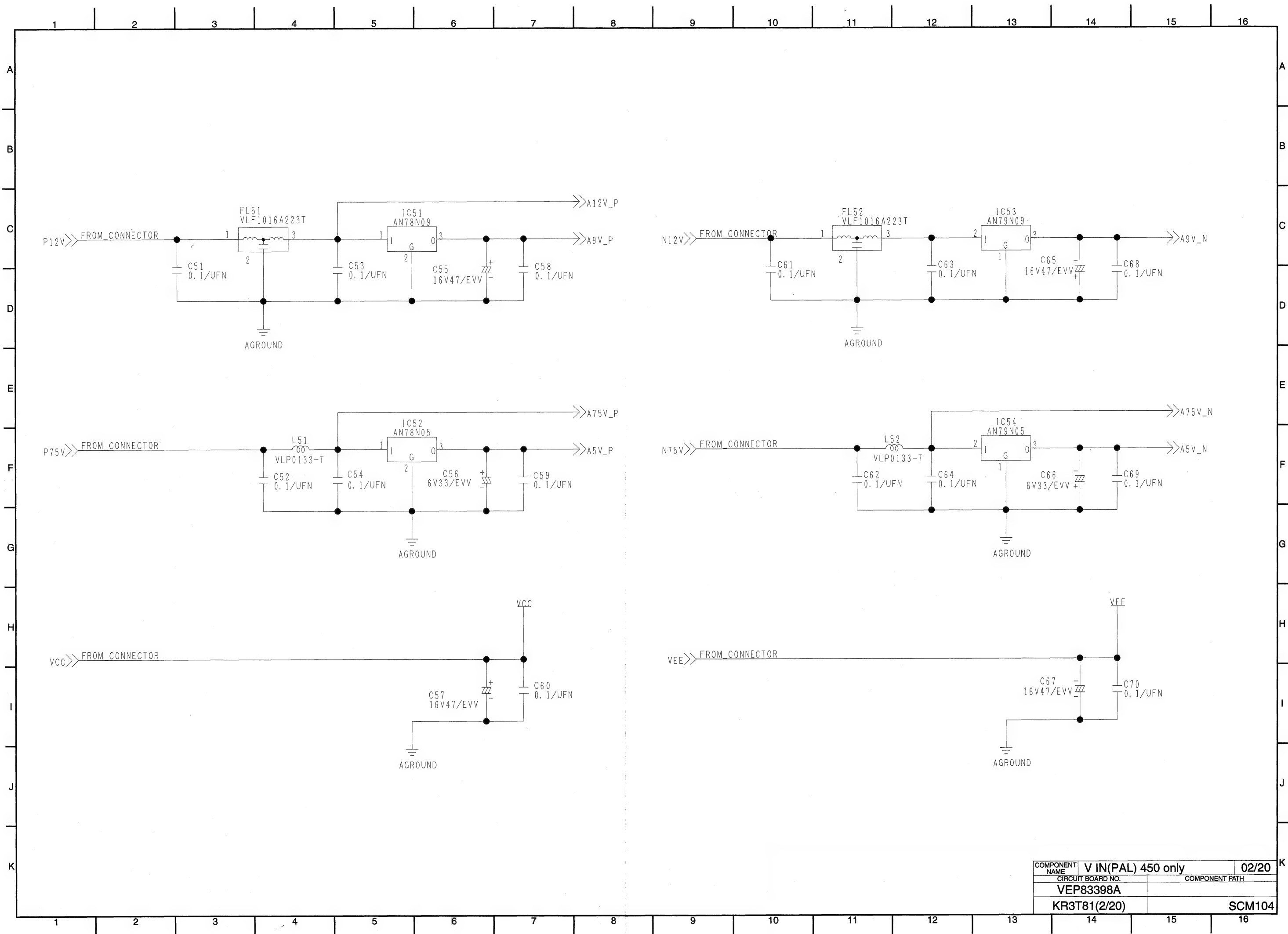
COMPONENT NAME	V IN(NTSC) 450 only	19/20
CIRCUIT BOARD NO.	VEP83397A: JAPAN only VEP83397B: 450P only	COMPONENT PATH
KR3T80(19/20)		SCM101



COMPONENT NAME	V IN(NTSC) 450 only	20/20
CIRCUIT BOARD NO.	VEP83397A: JAPAN only	
	VEP83397B: 450P only	
	KR3T80(20/20)	SCM102



COMPONENT NAME	V IN(PAL) 450 only	01/20
CIRCUIT BOARD NO.	VEP83398A	COMPONENT PATH
KR3T81(1/20)		SCM103

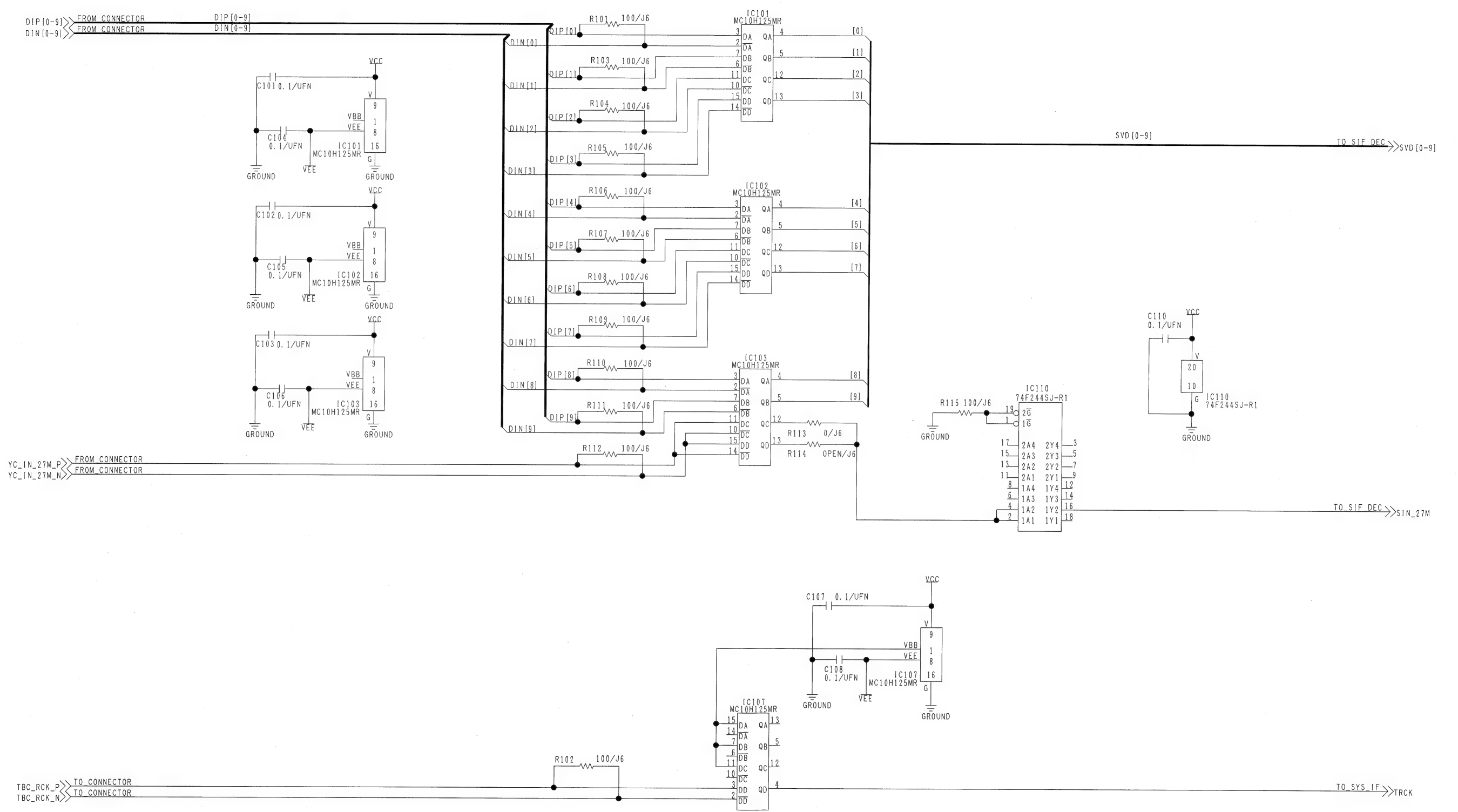


COMPONENT NAME	V IN(PAL) 450 only	02/20
CIRCUIT BOARD NO.	VEP83398A	
	KR3T81(2/20)	SCM104

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16

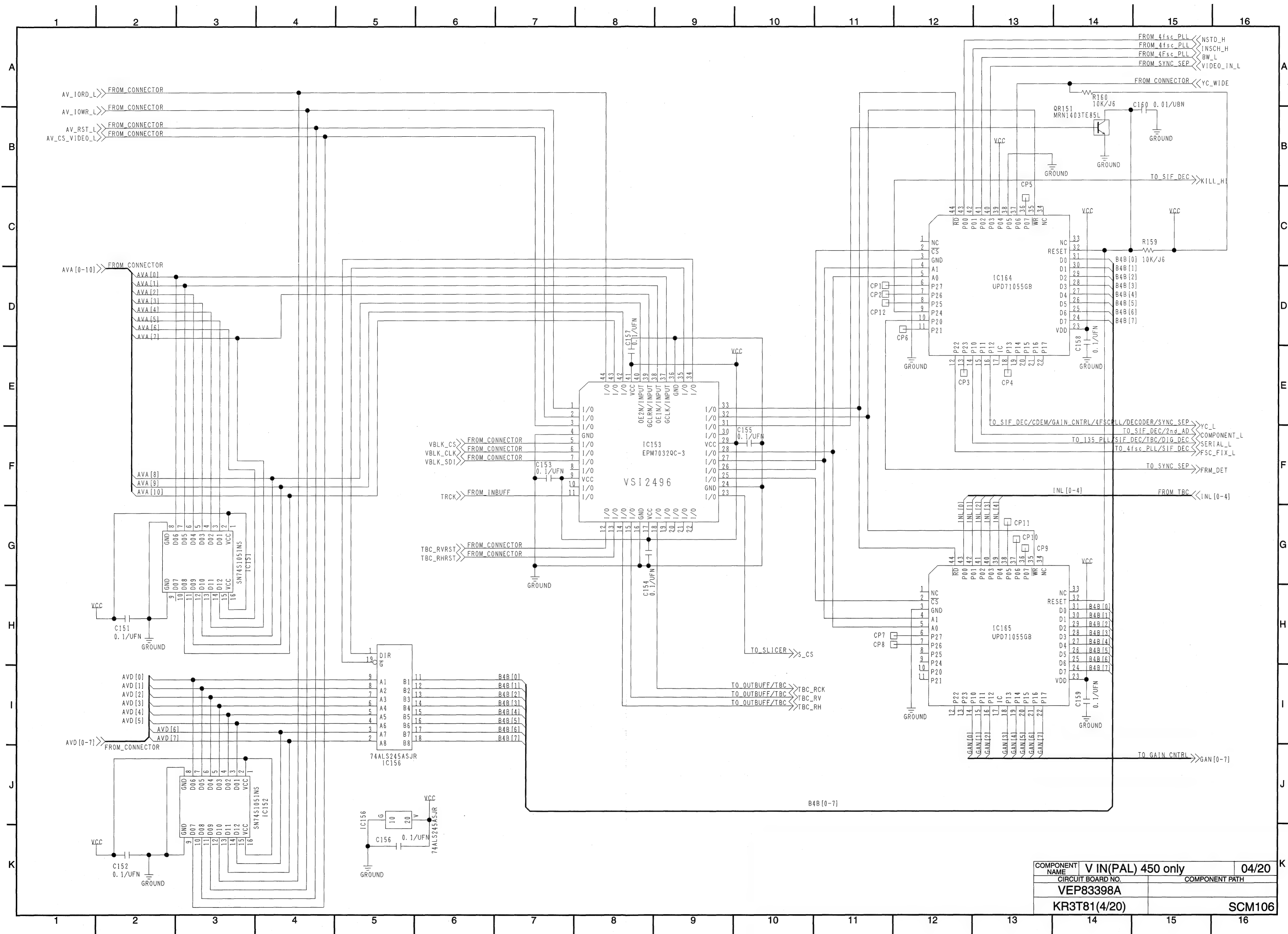
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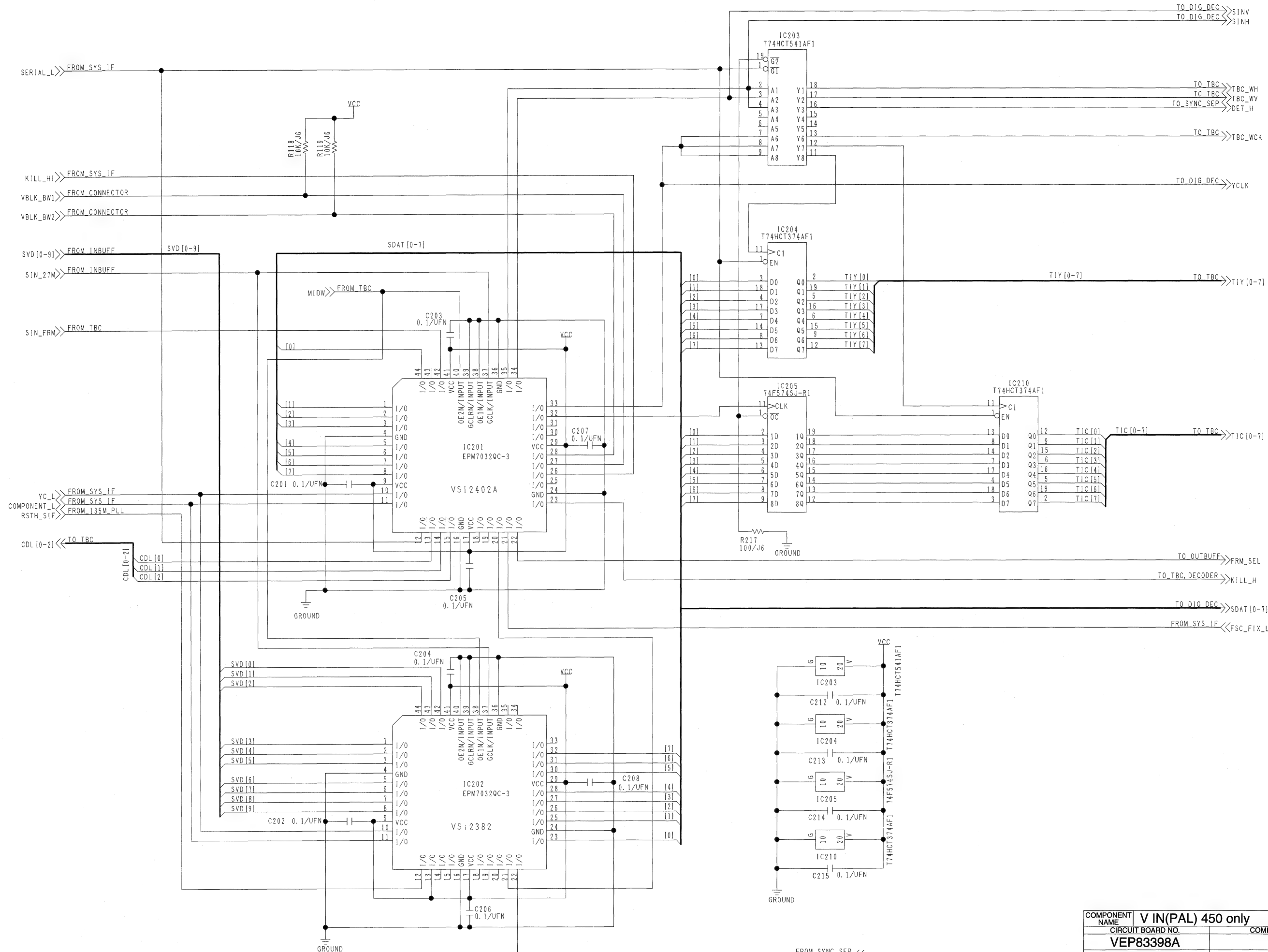
COMPONENT NAME	V IN(PAL) 450 only	03/20
CIRCUIT BOARD NO.	VEP83398A	COMPONENT PATH
KR3T81(3/20)		SCM105

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16



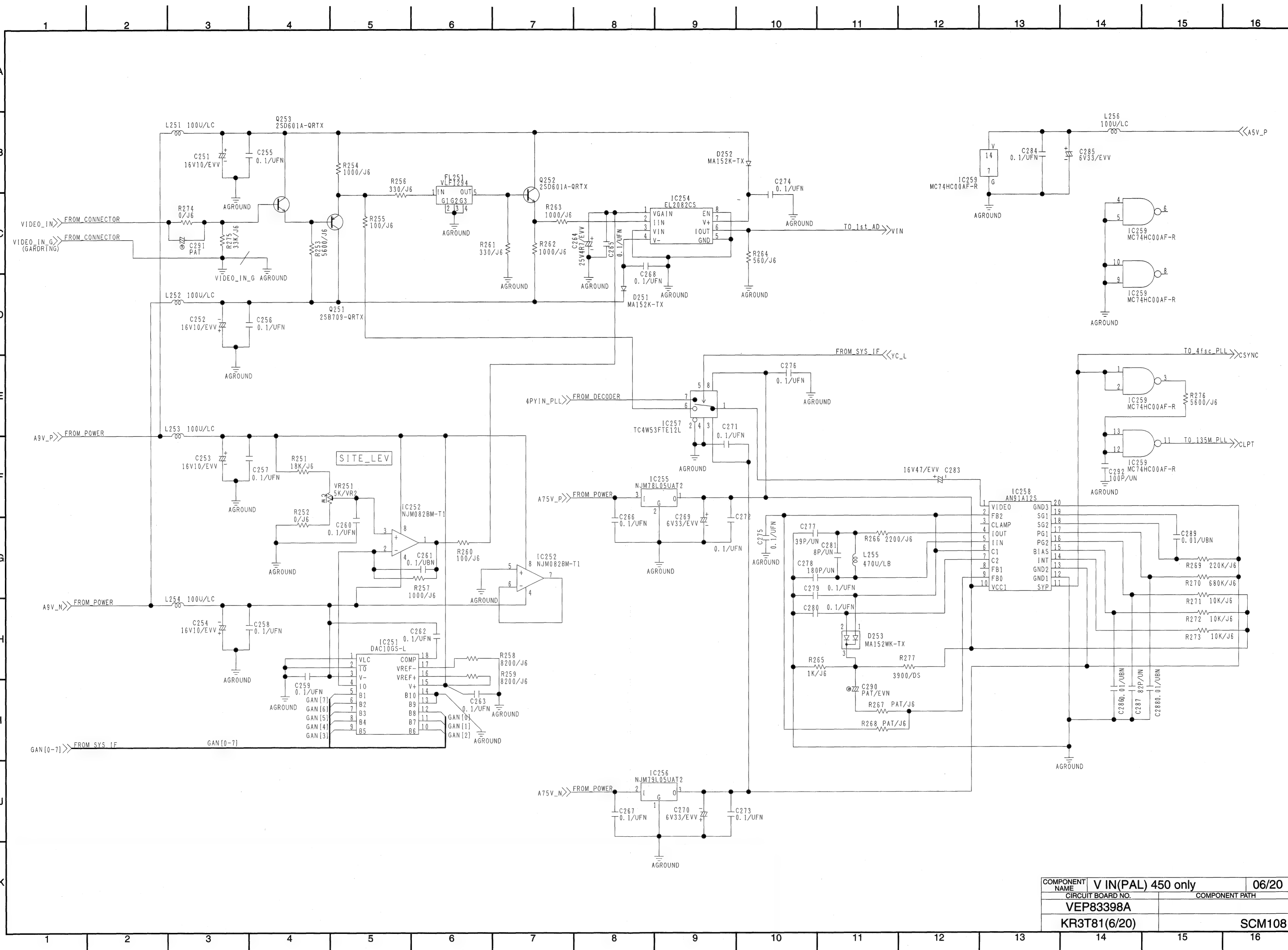
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16

A B C D E F G H I J K

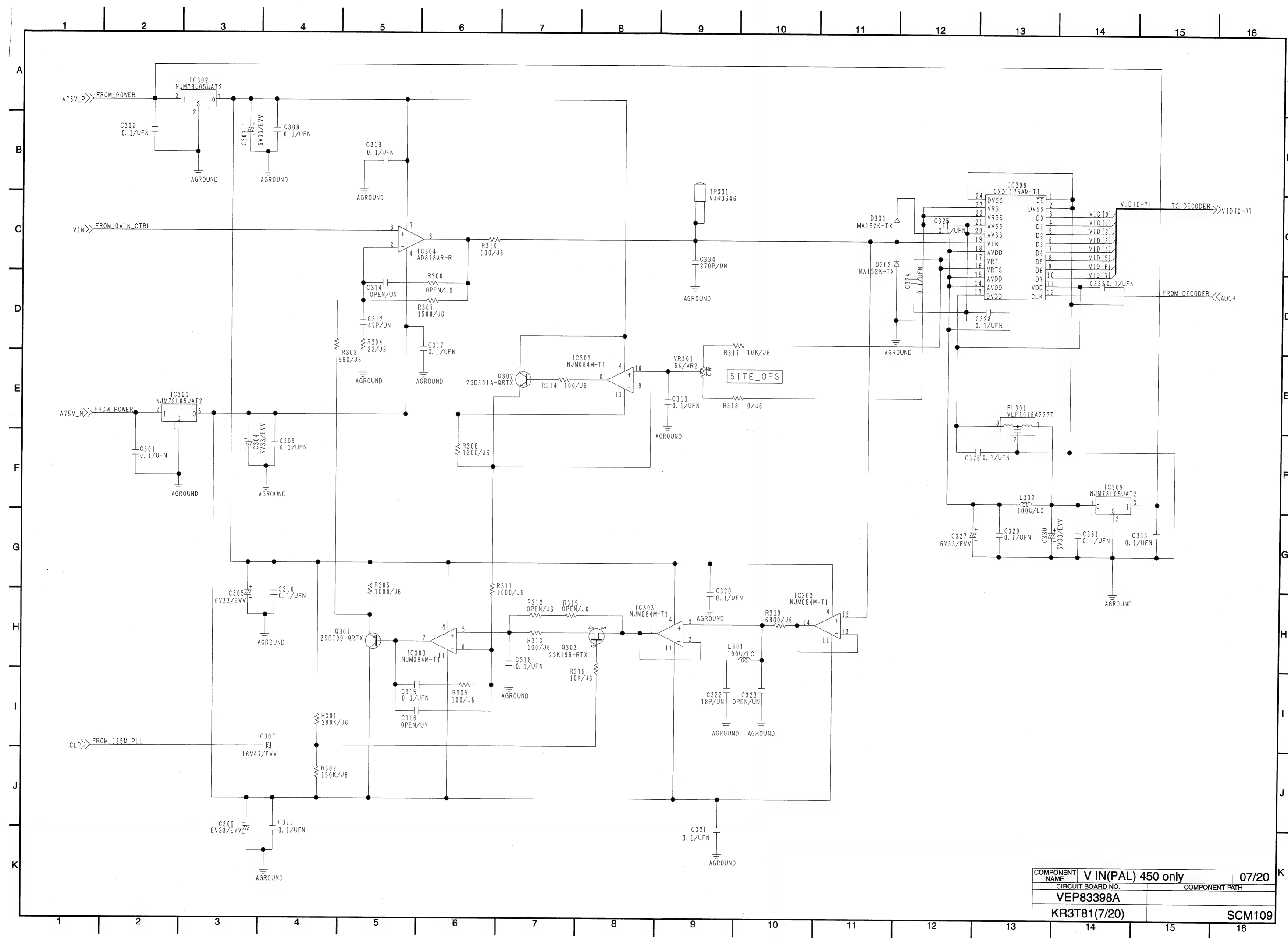


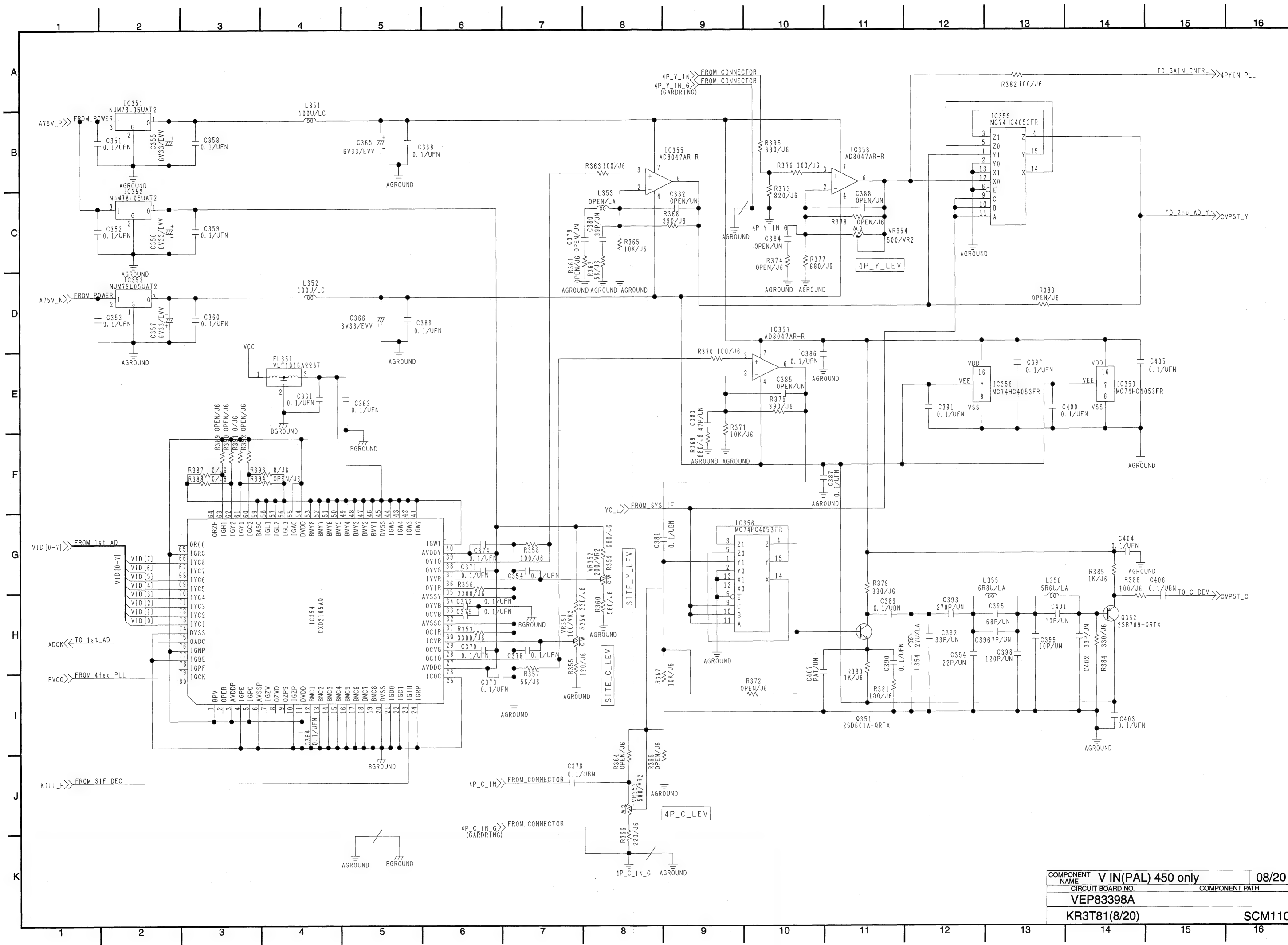
COMPONENT NAME	V IN(PAL) 450 only	05/20
CIRCUIT BOARD NO.	VEP83398A	COMPONENT PATH
	KR3T81(5/20)	SCM107

FROM_SYNC_SEP<<INP_FRM

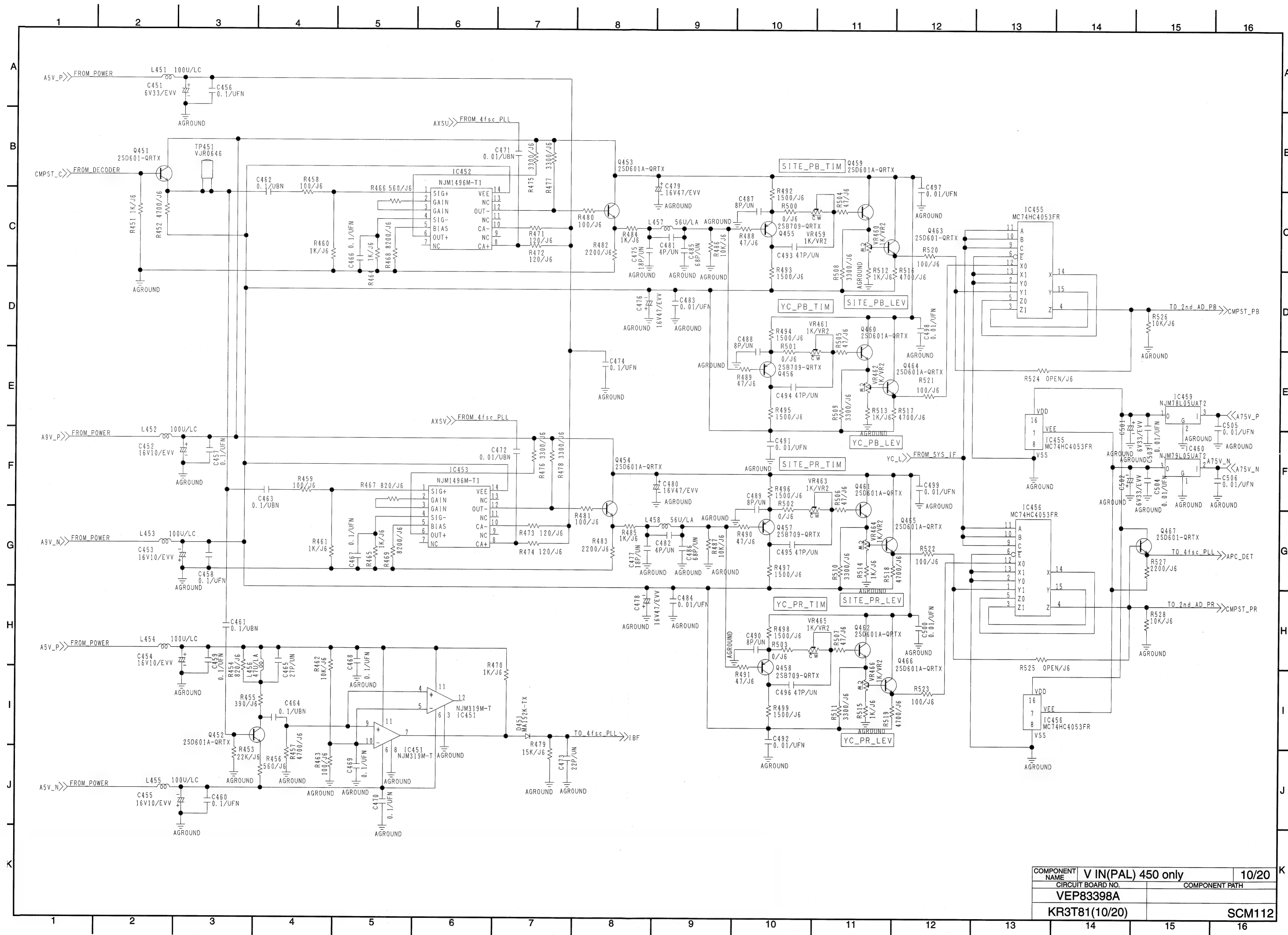


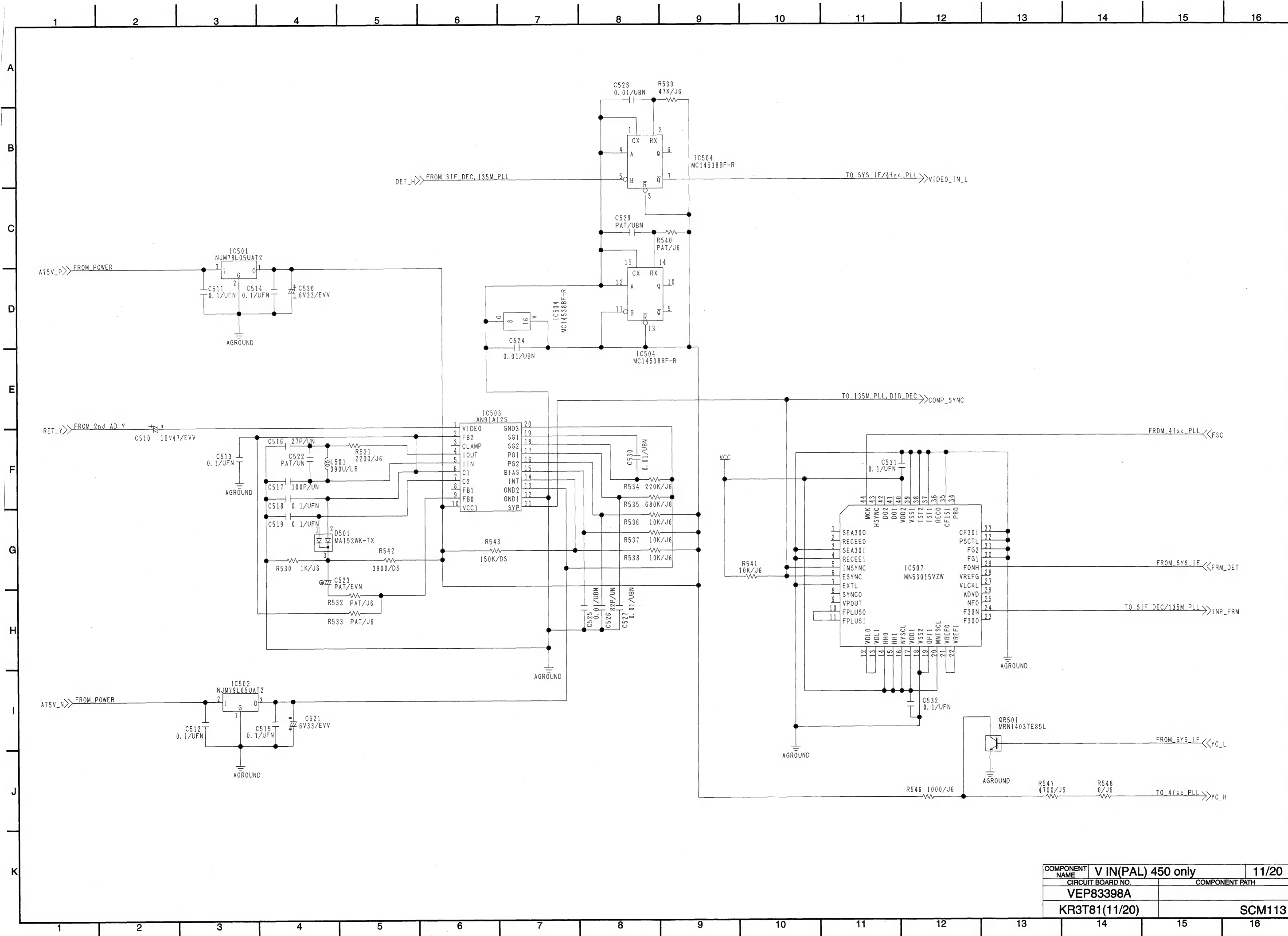
COMPONENT NAME	V IN(PAL) 450 only	06/20
CIRCUIT BOARD NO.	VEP83398A	COMPONENT PATH
KR3T81(6/20)		SCM108



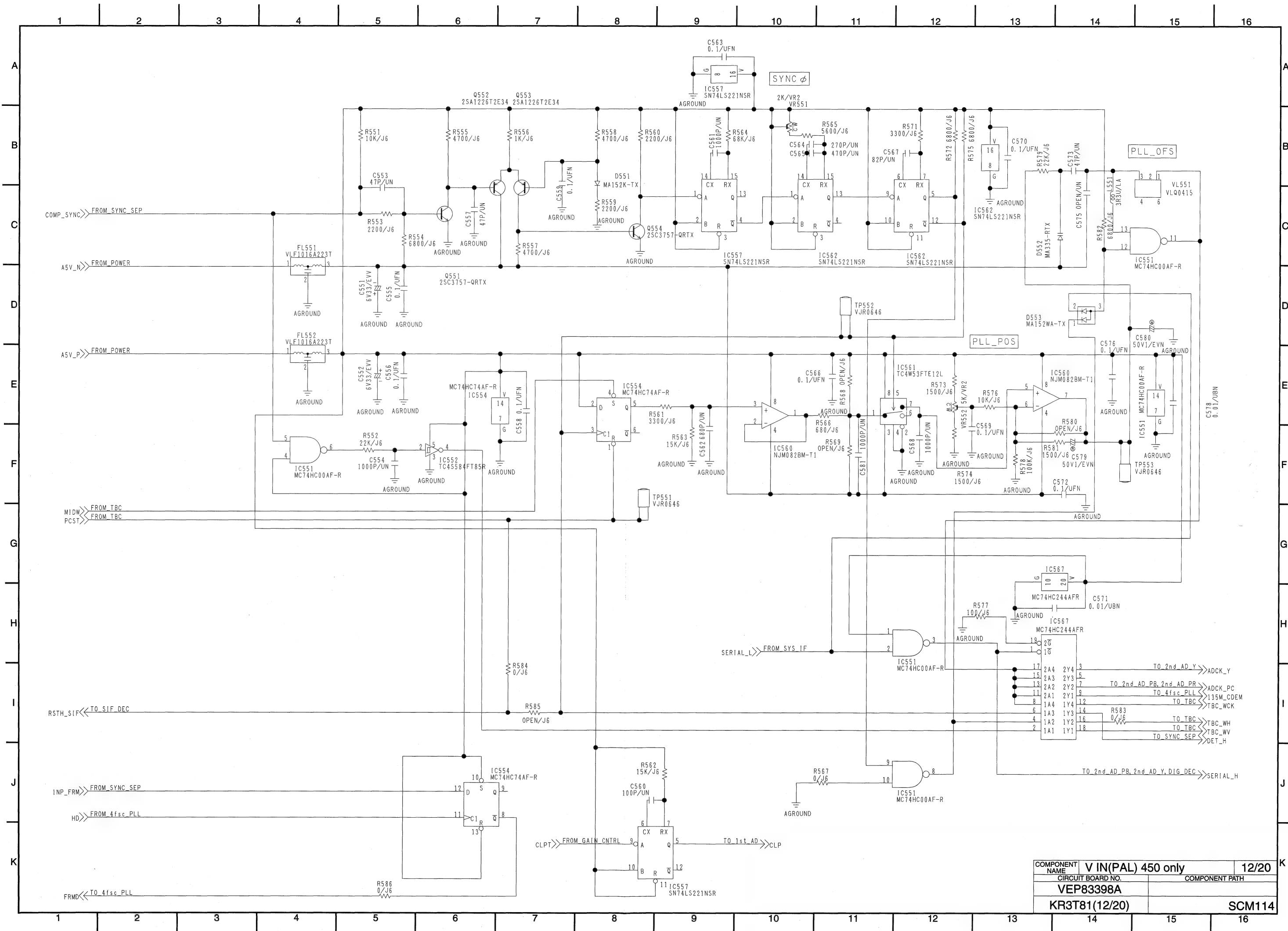


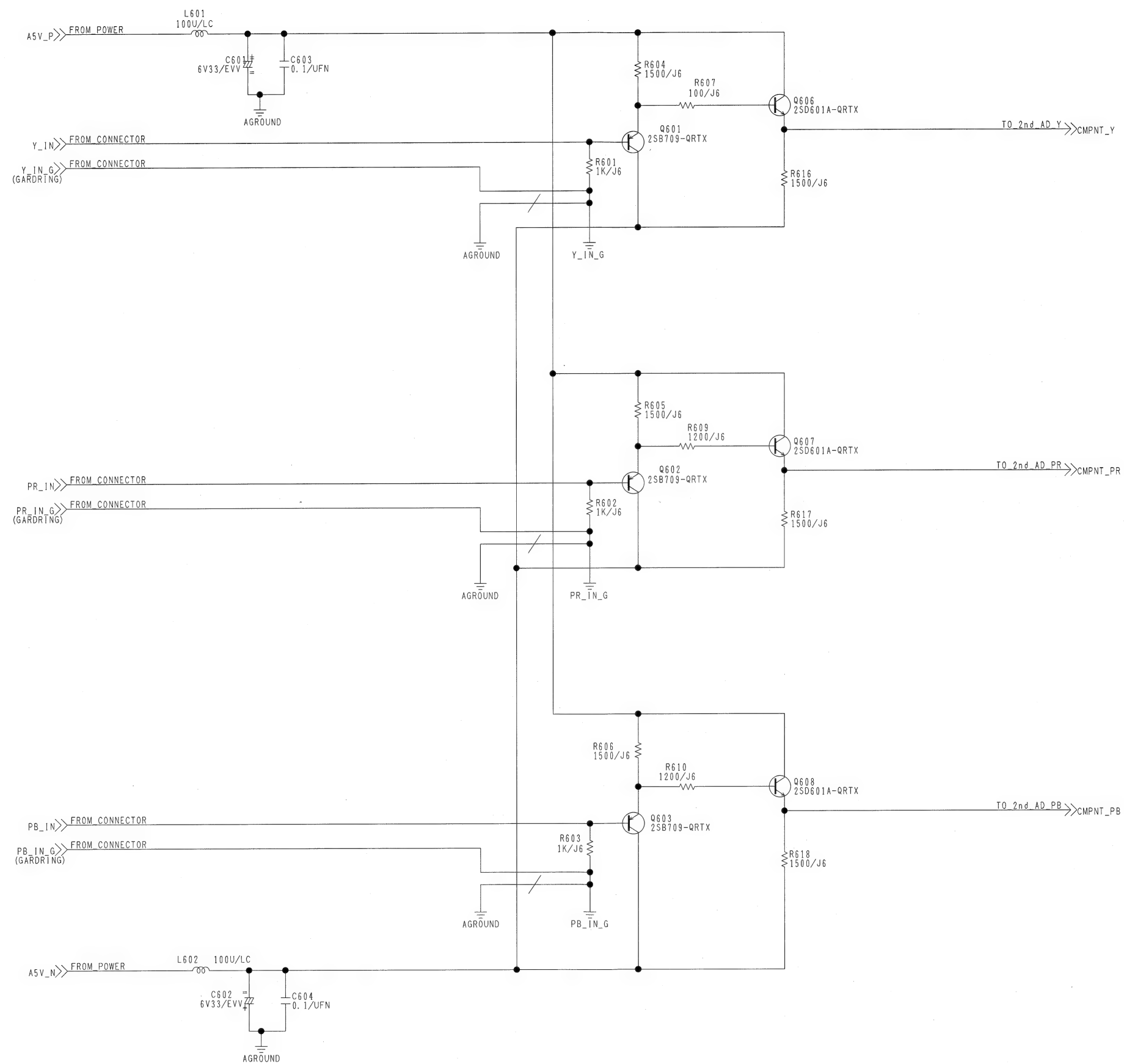
COMPONENT NAME	V IN(PAL) 450 only	08/20
CIRCUIT BOARD NO.	VEP83398A	COMPONENT PATH
KR3T81(8/20)	SCM110	



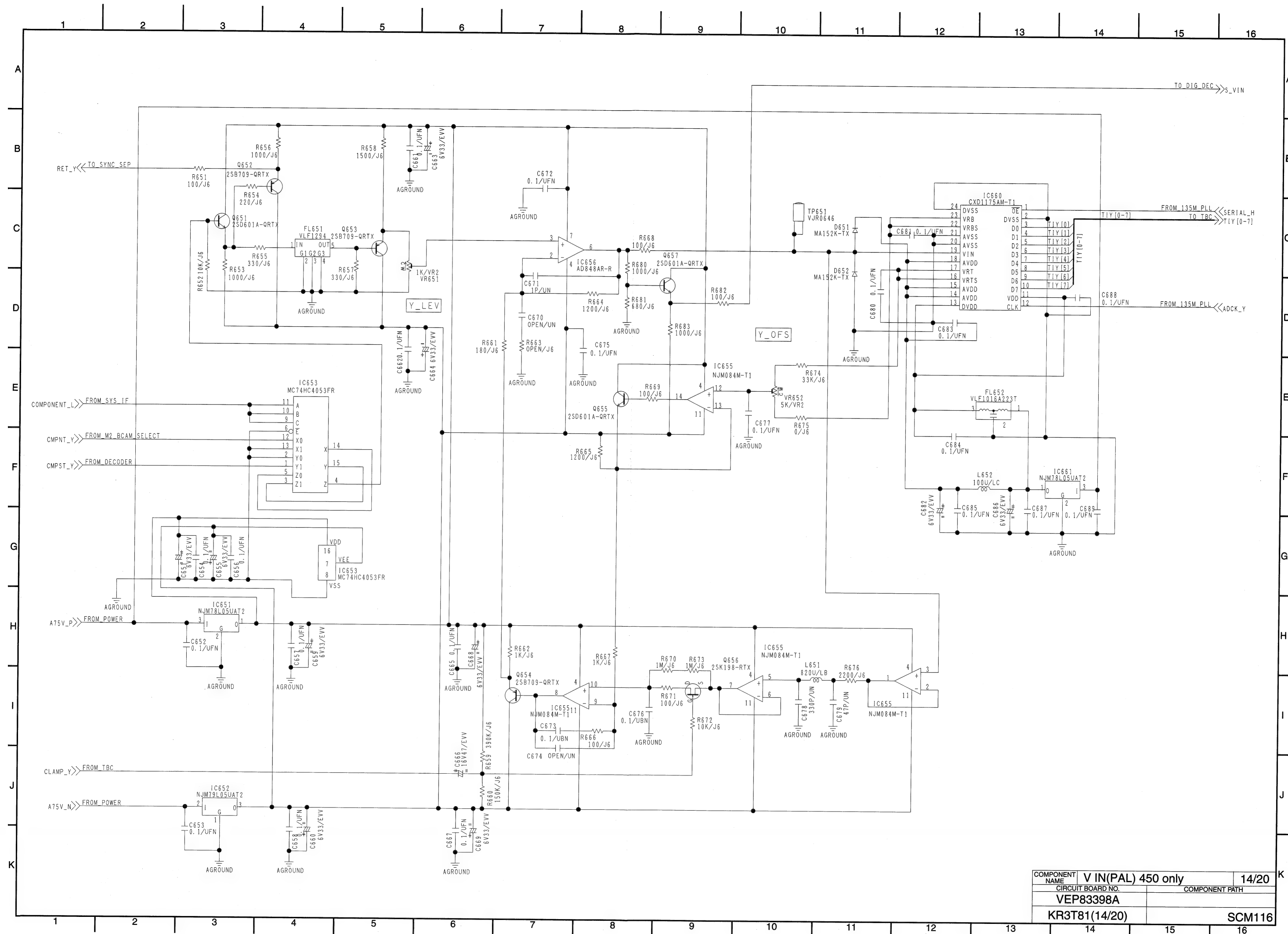


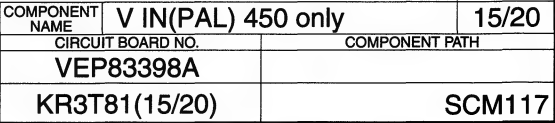
COMPONENT NAME	V IN(PAL) 450 only	11/20
CIRCUIT BOARD NO.	VEP83398A	COMPONENT PATH
KR3T81(11/20)		SCM113





COMPONENT NAME	V IN(PAL) 450 only	13/20
CIRCUIT BOARD NO.	VEP83398A	COMPONENT PATH
KR3T81(13/20)		SCM115

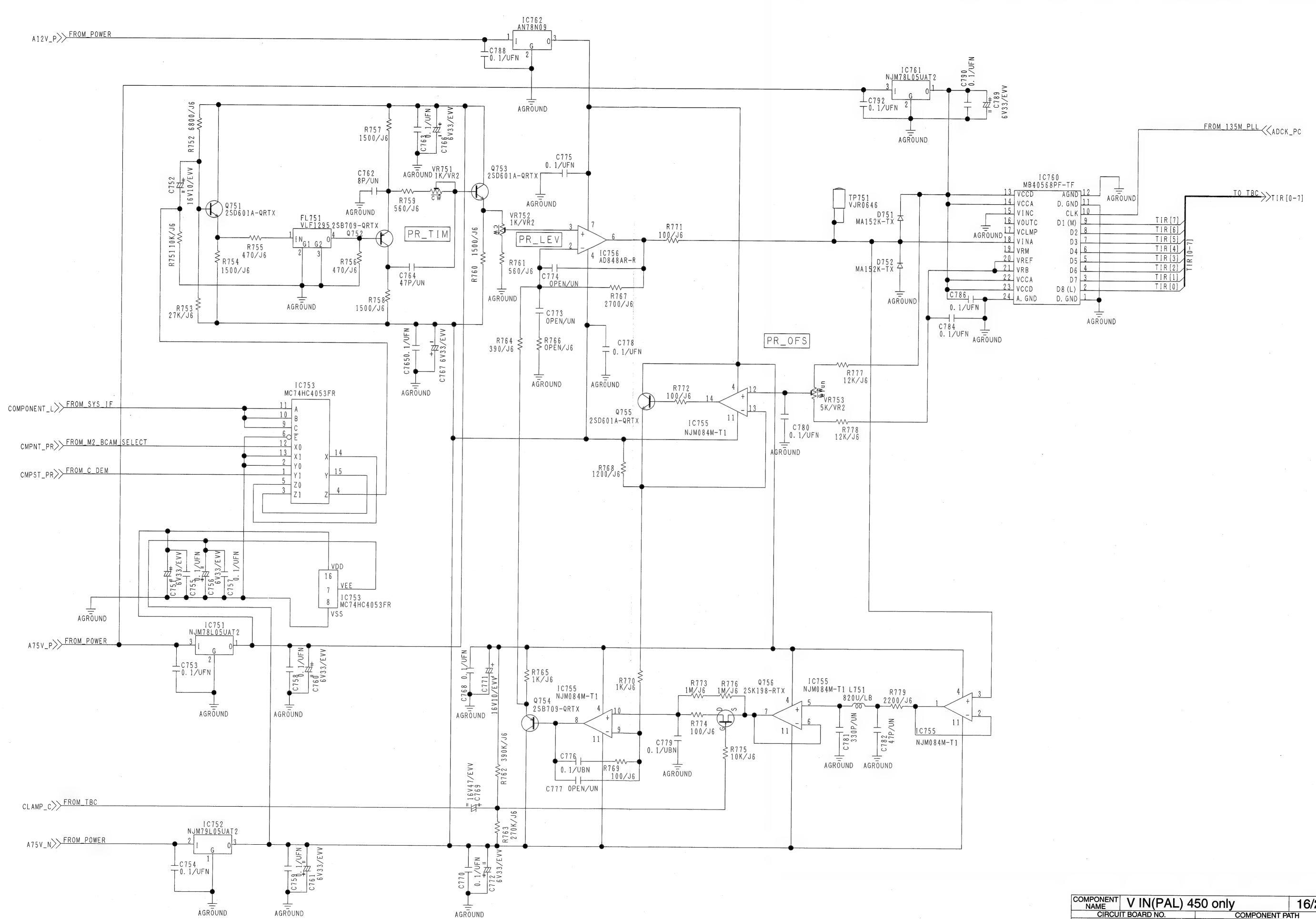




1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16

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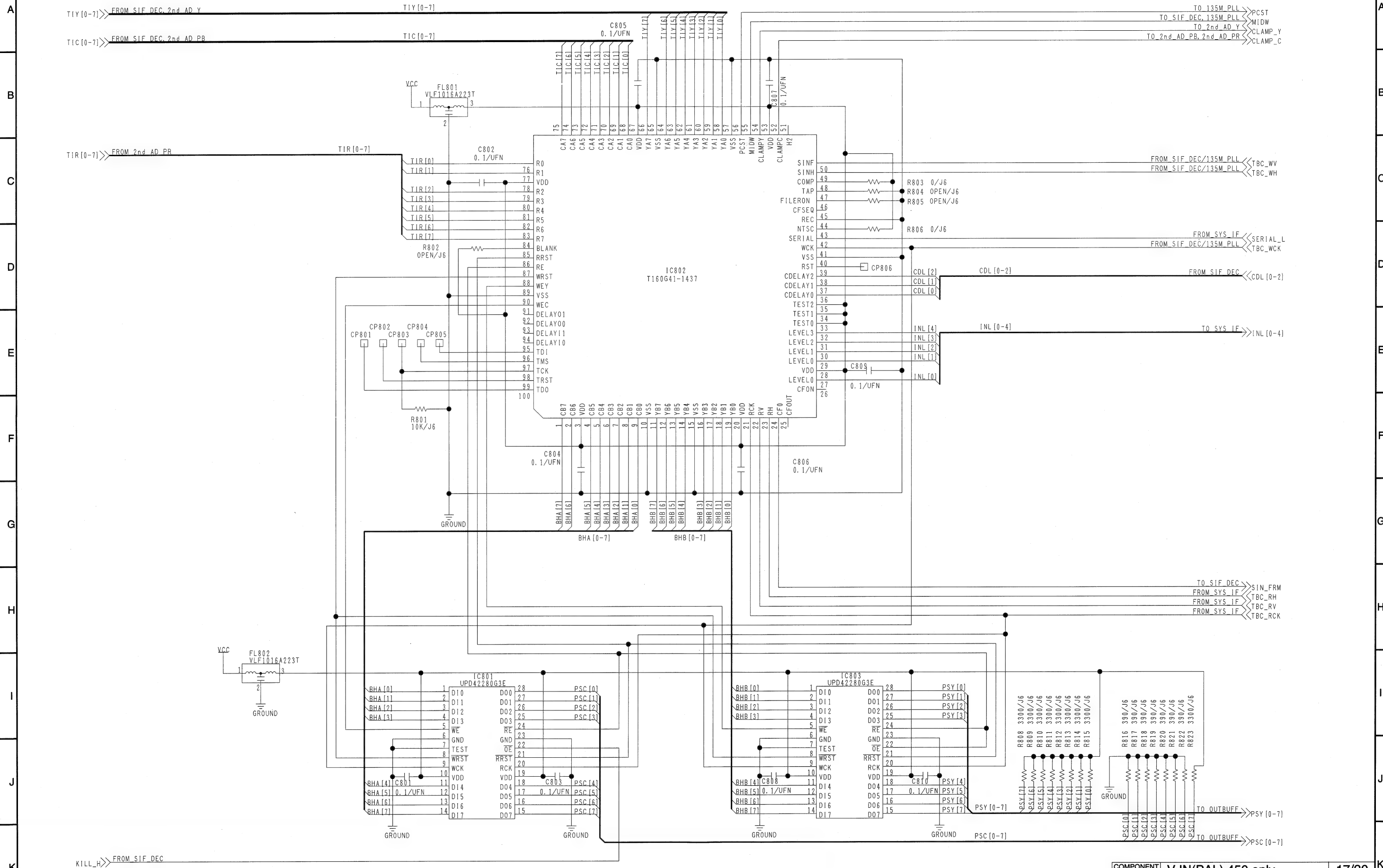
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COMPONENT NAME	V IN(PAL) 450 only	16/20
CIRCUIT BOARD NO.	VEP83398A	COMPONENT PATH
KR3T81(16/20)		SCM118

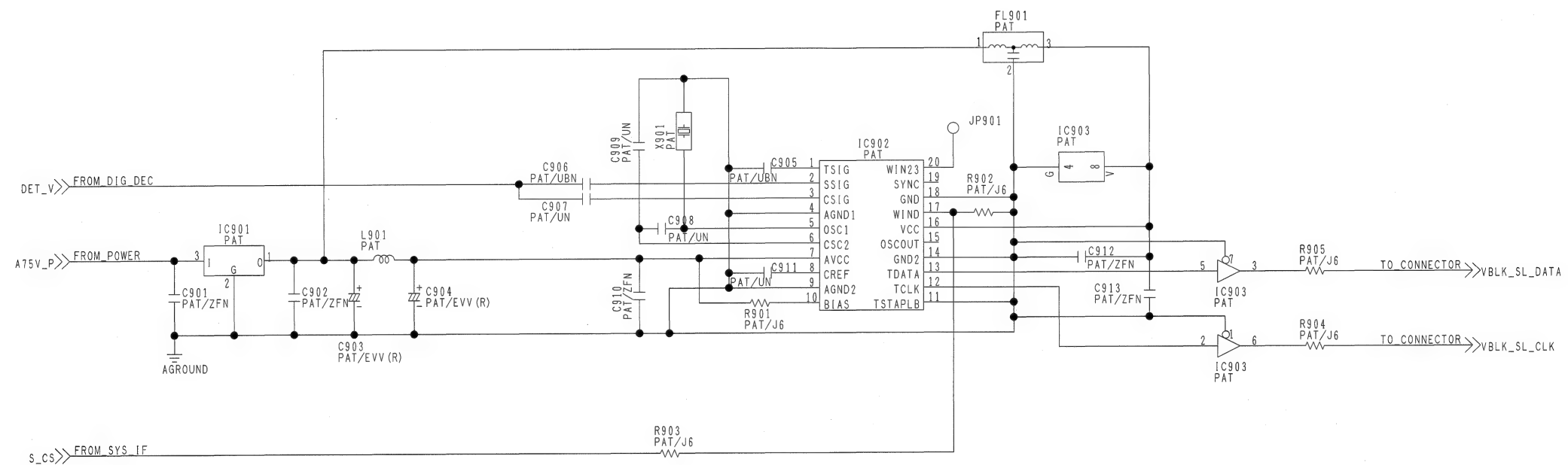
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16

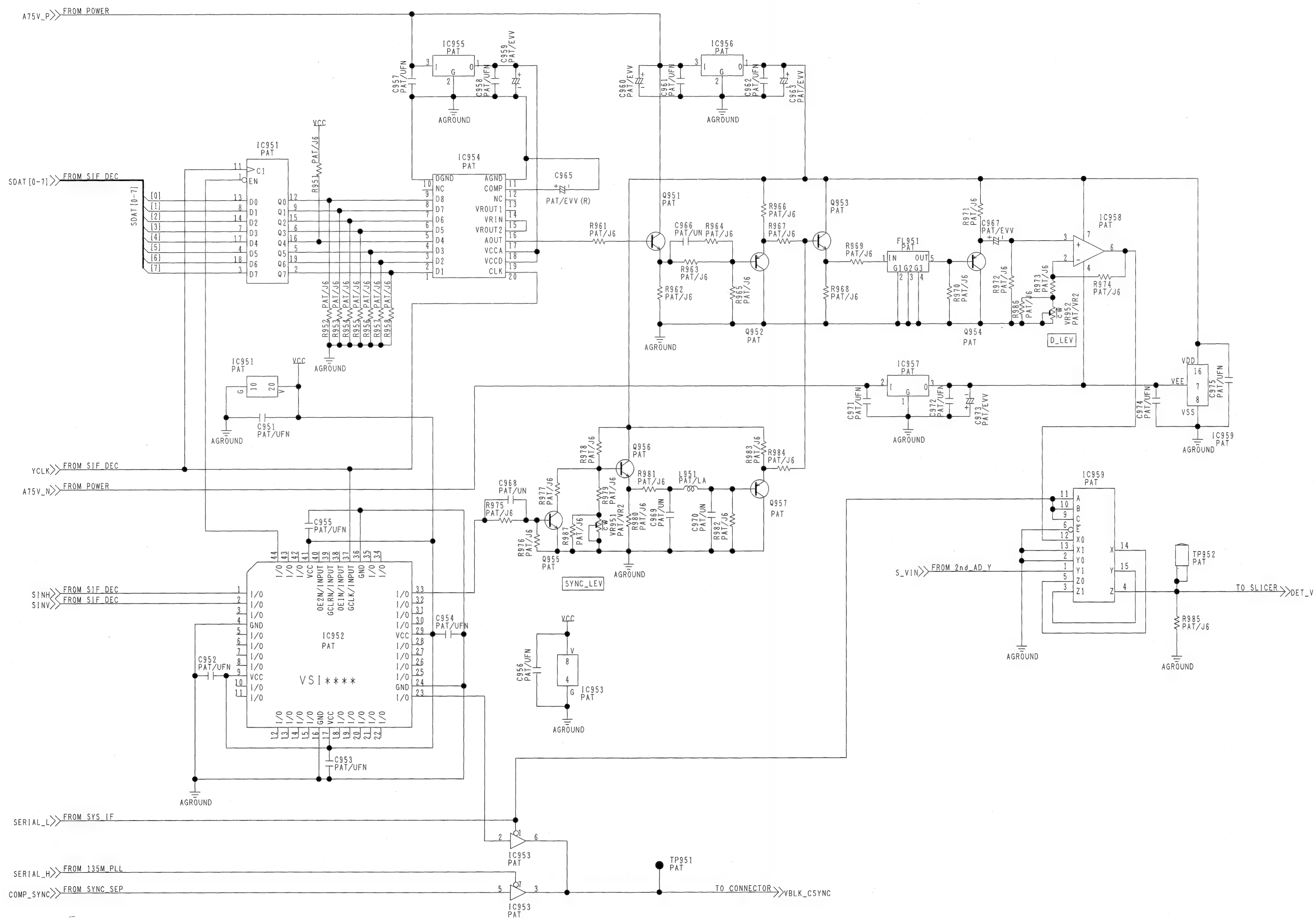


COMPONENT NAME	V IN(PAL) 450 only	17/20
CIRCUIT BOARD NO.	VEP83398A	COMPONENT PATH
KR3T81(17/20)		SCM119

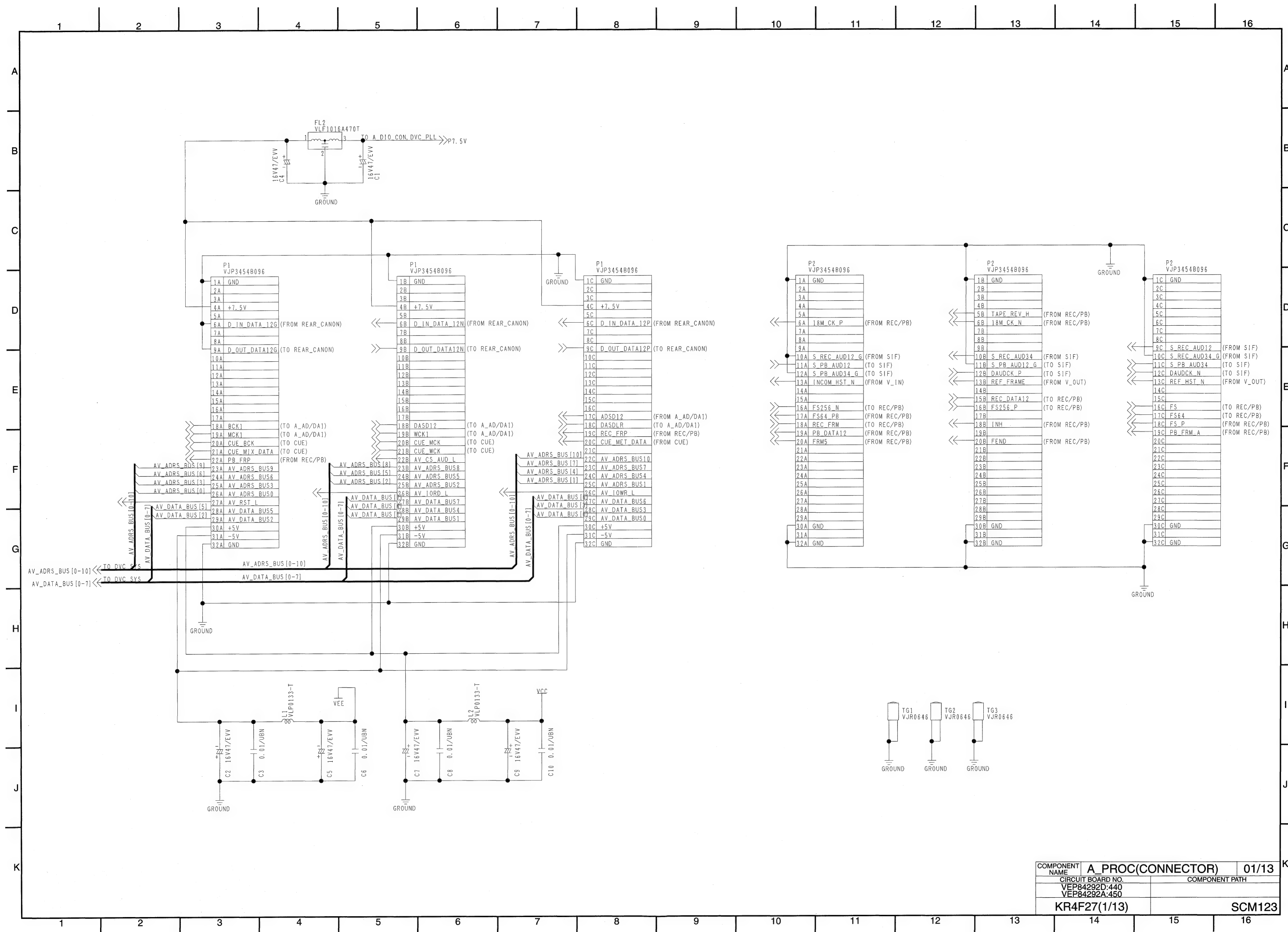
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16

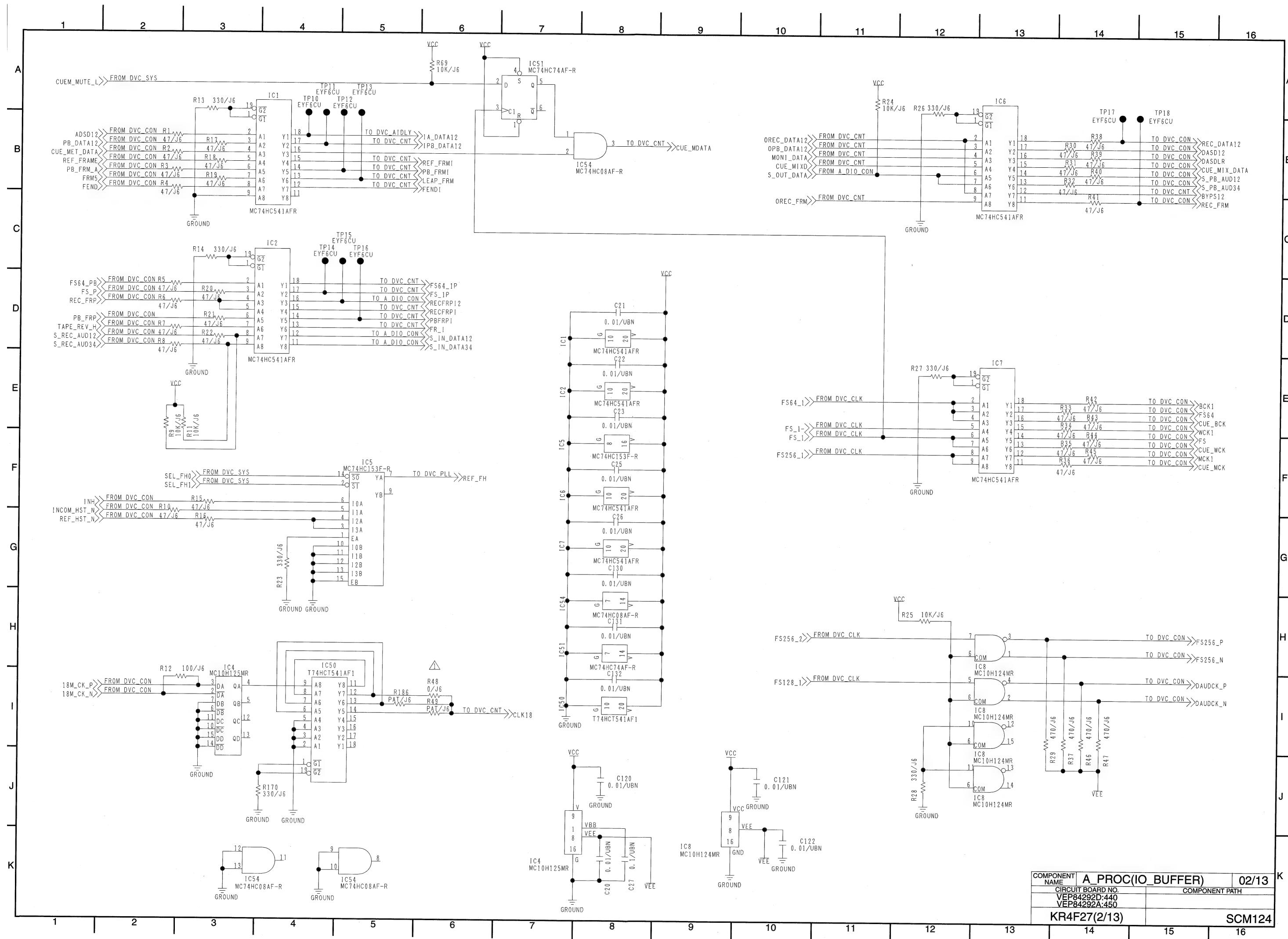


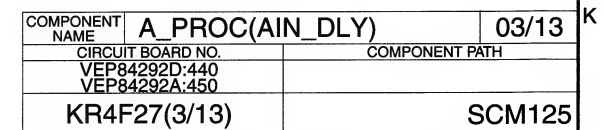
COMPONENT NAME	V IN(PAL) 450 only	19/20
CIRCUIT BOARD NO.	VEP83398A	COMPONENT PATH
KR3T81(19/20)		SCM121

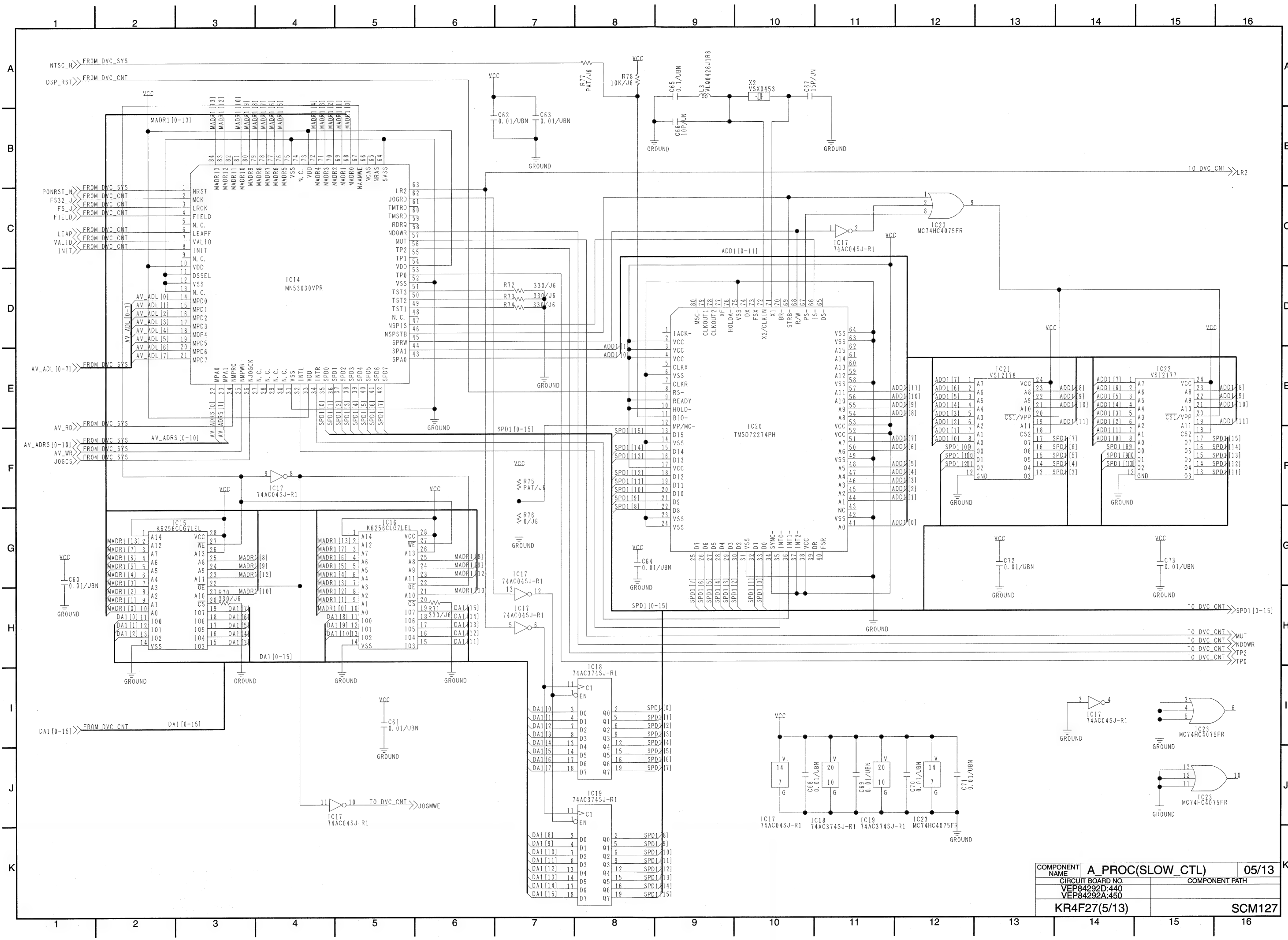


COMPONENT NAME	V IN(PAL) 450 only	20/20
CIRCUIT BOARD NO.	VEP83398A	COMPONENT PATH
KR3T81(20/20)		SCM122

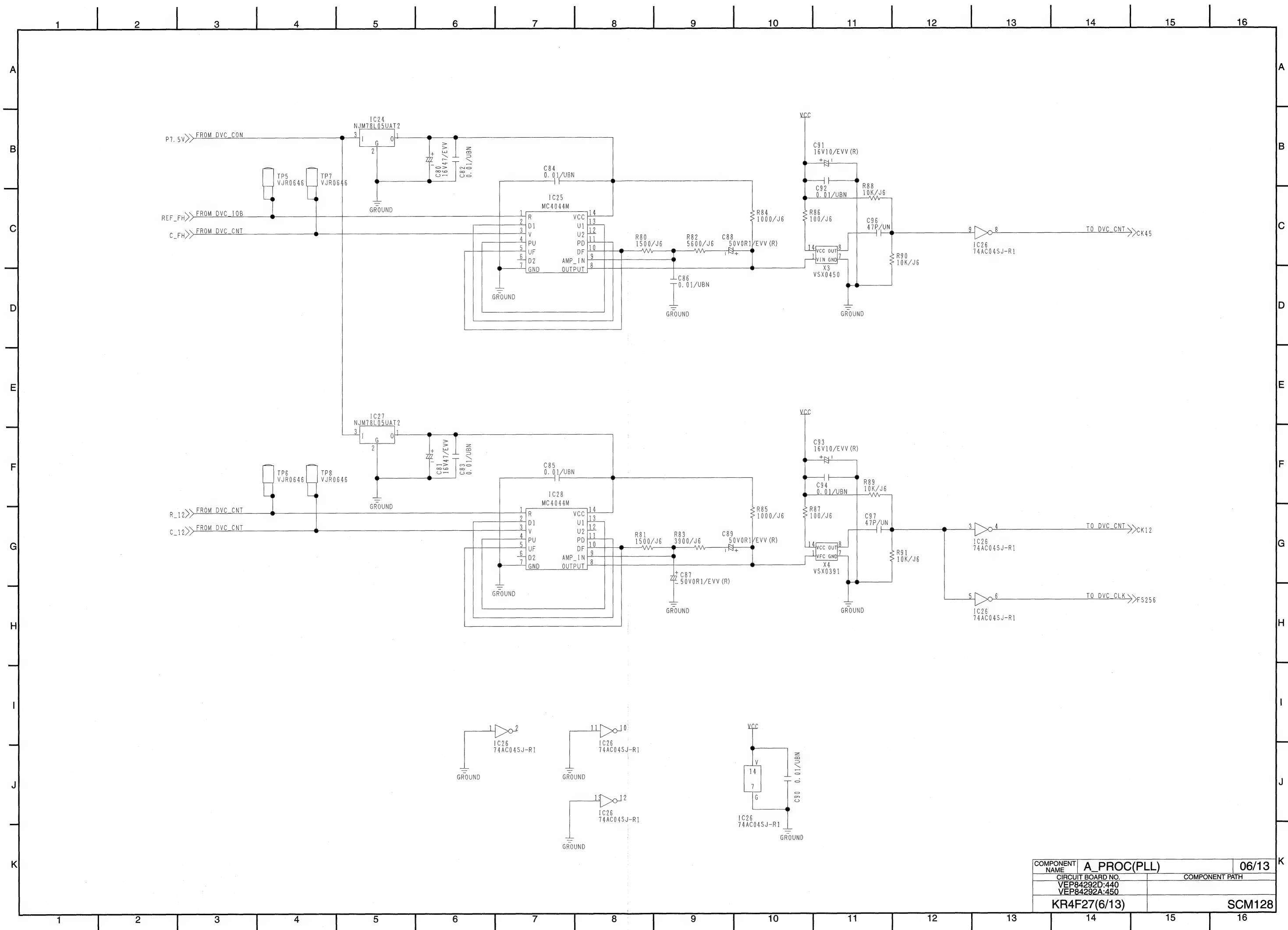


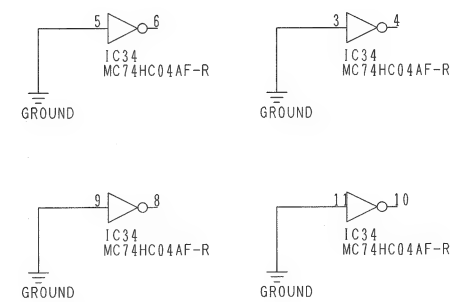
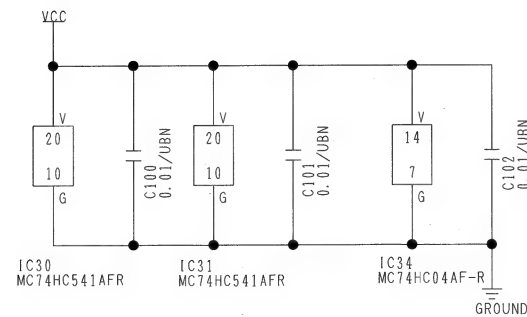
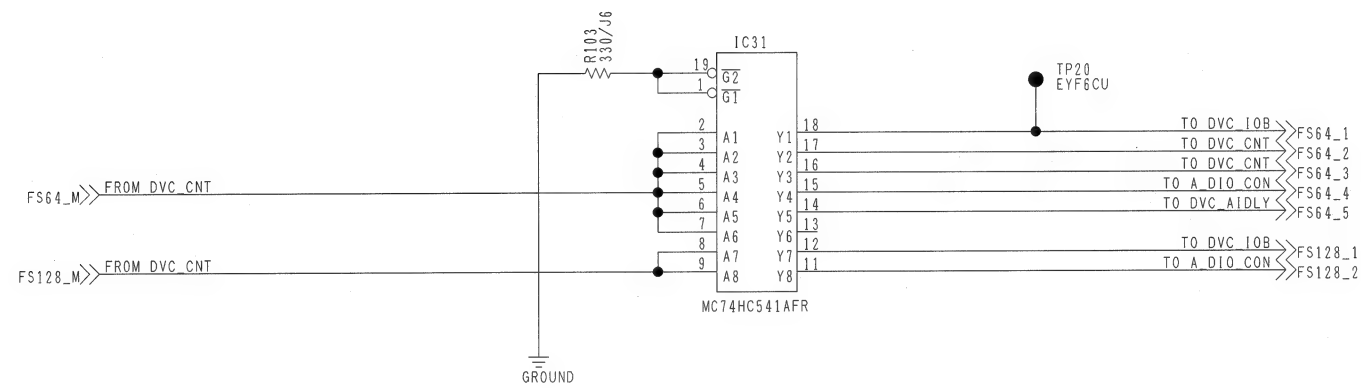
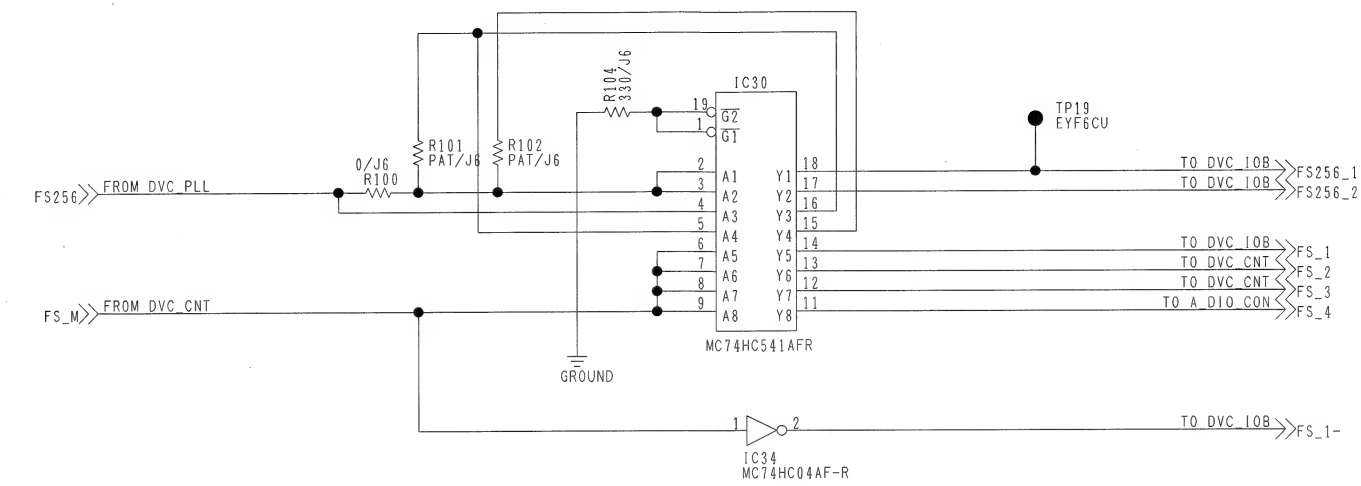




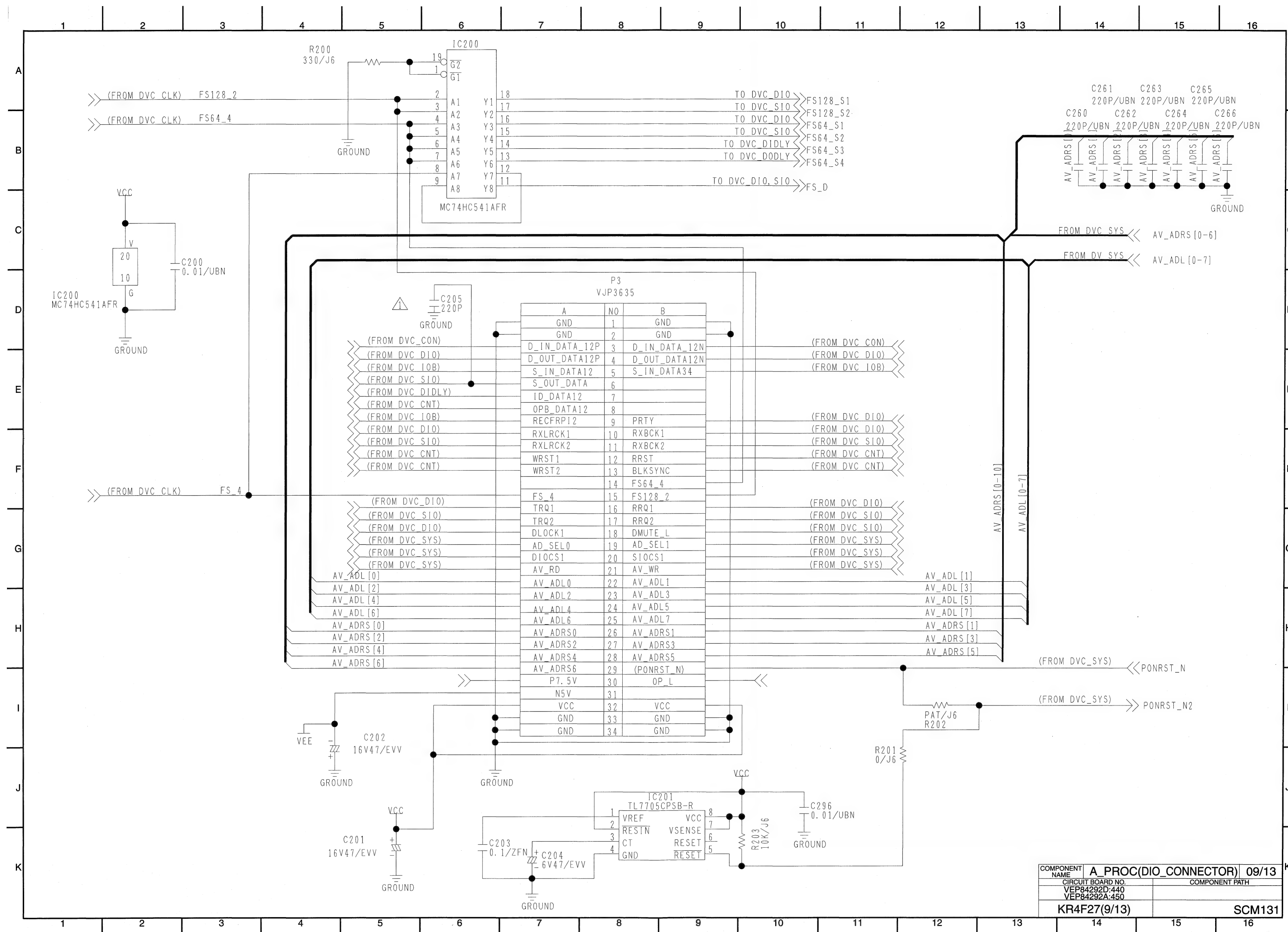


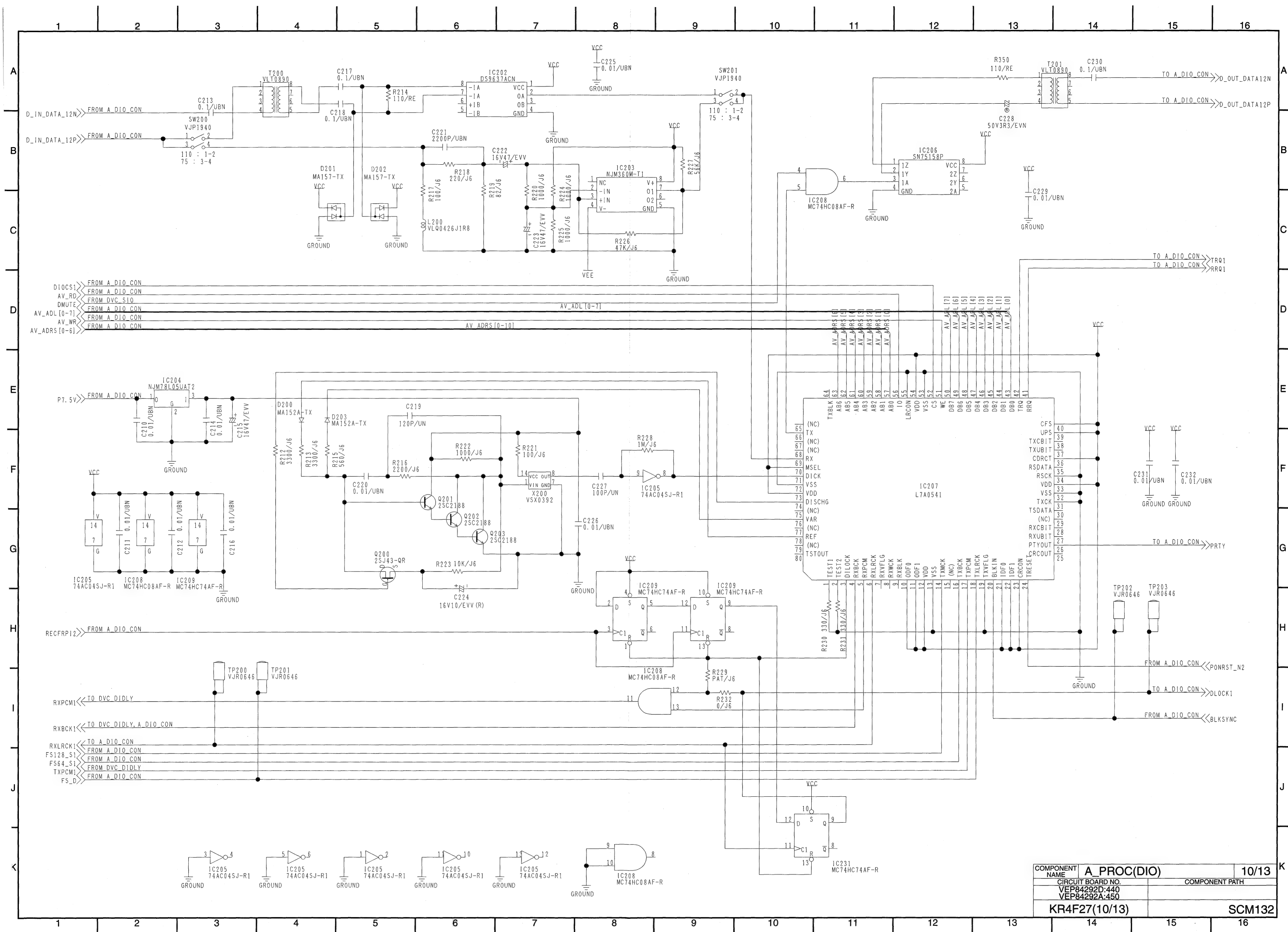
COMPONENT NAME	A_PROC(SLOW_CTL)	05/13
CIRCUIT BOARD NO.	VEP84292D:440	COMPONENT PATH
	VEP84292A:450	
KR4F27(5/13)		SCM127



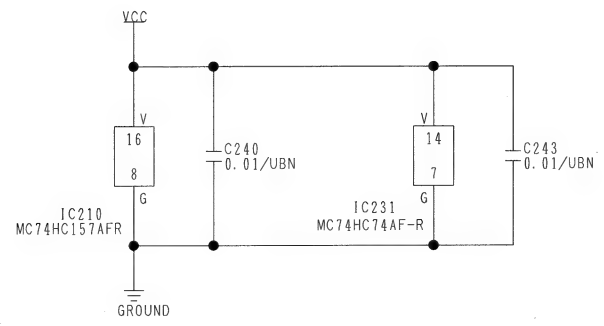
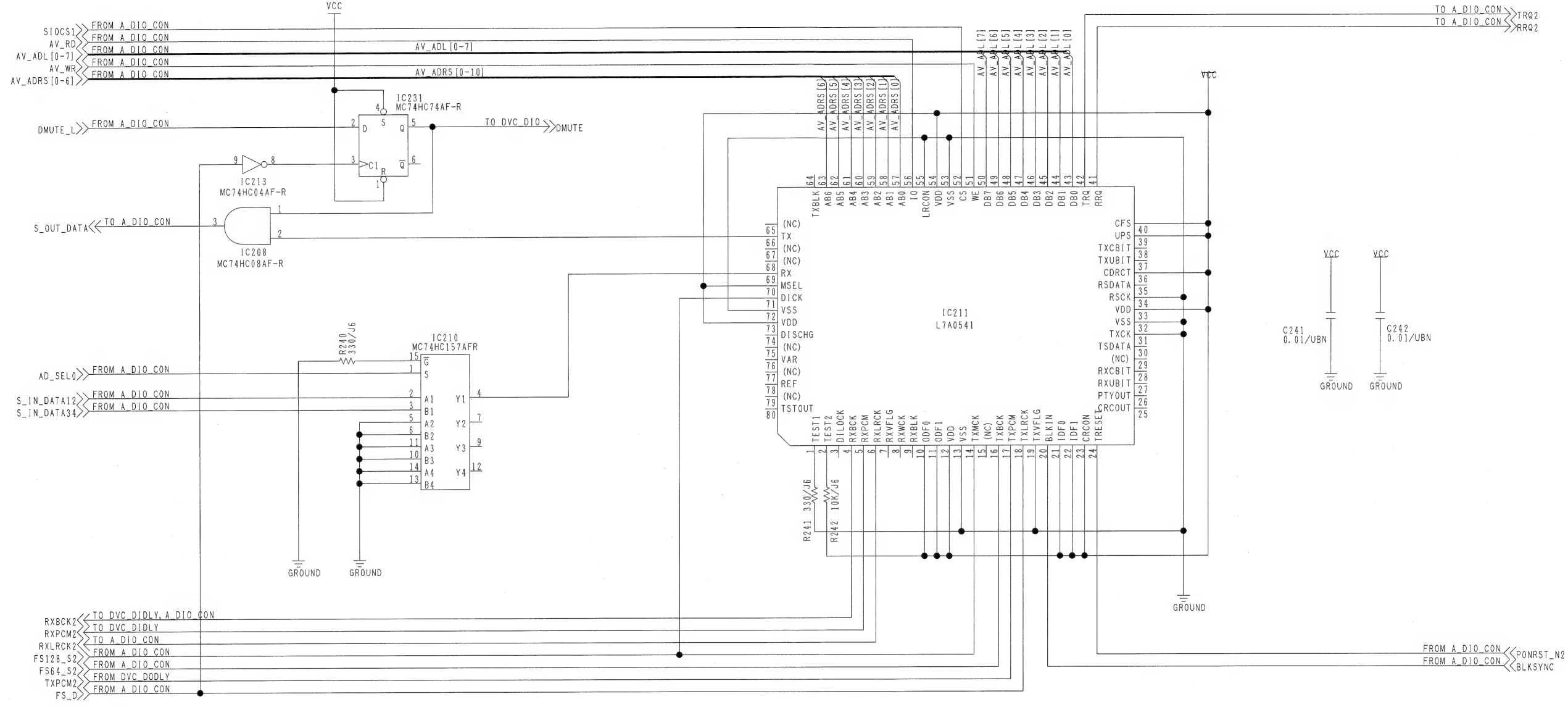


COMPONENT NAME	A_PROC(CLK_BUFFER)	07/13
CIRCUIT BOARD NO.	VEP84292D:440	COMPONENT PATH
	VEP84292A:450	
KR4F27(7/13)		SCM129

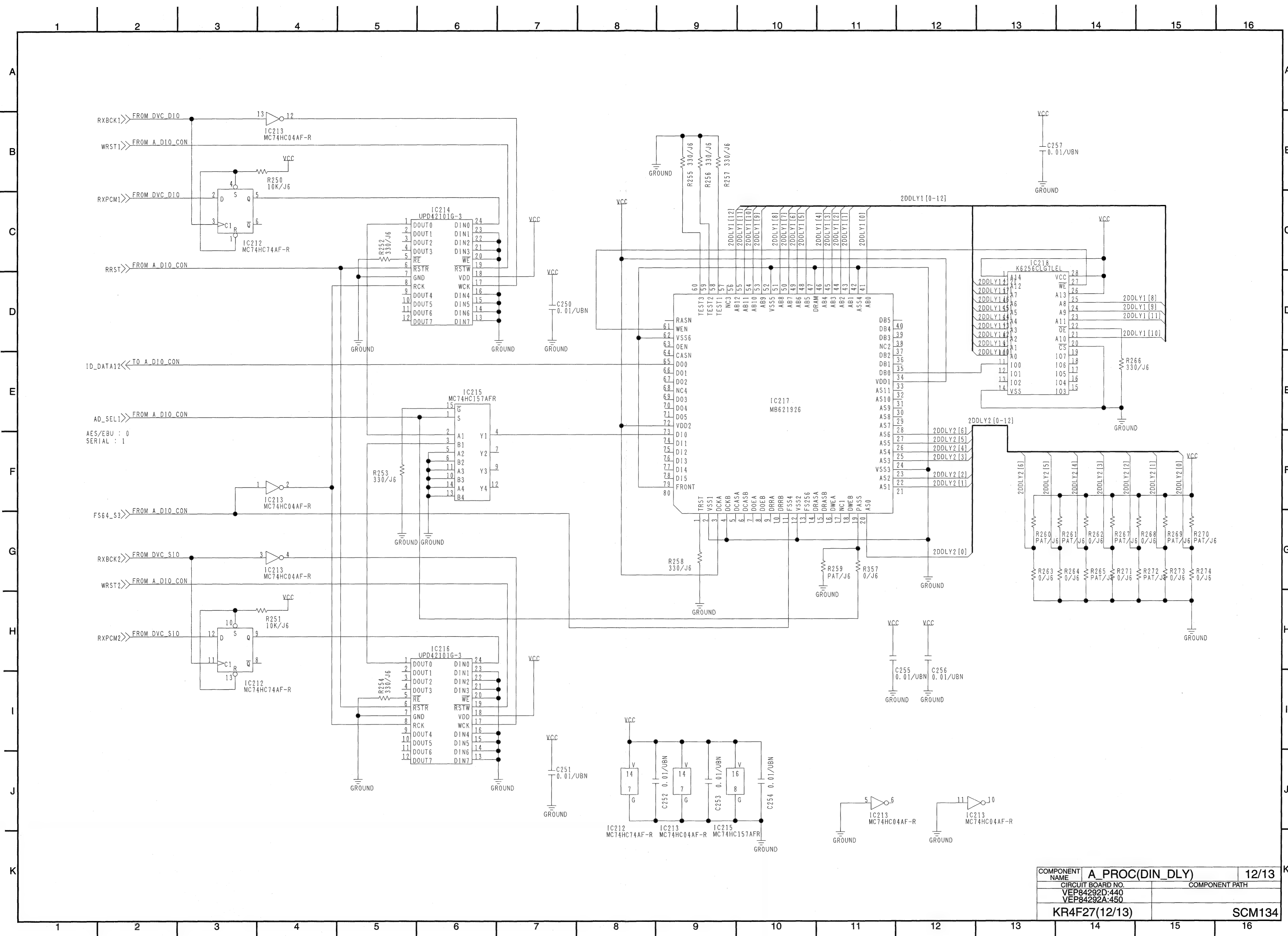


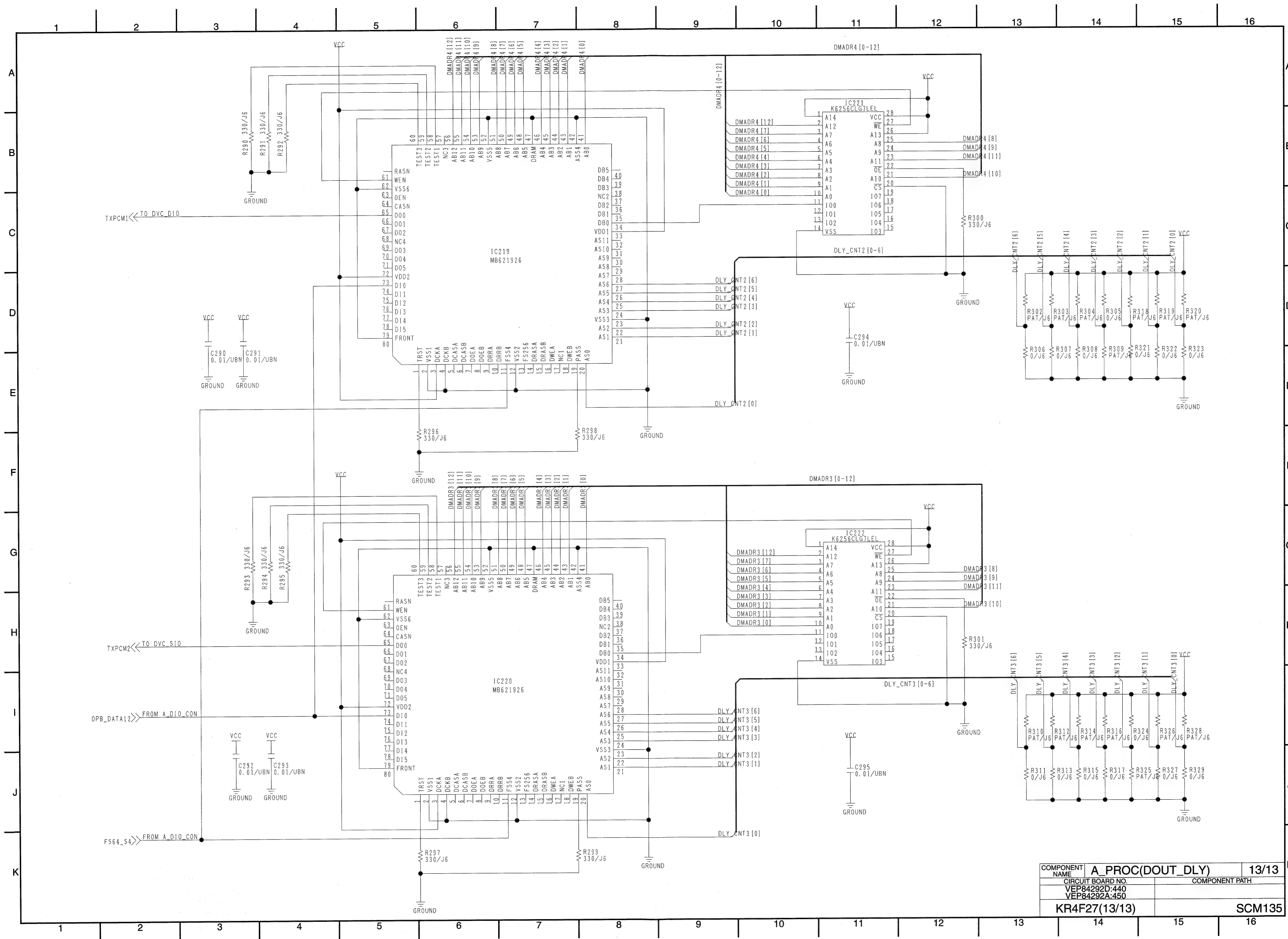


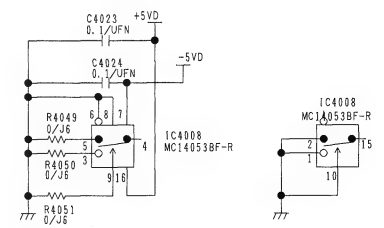
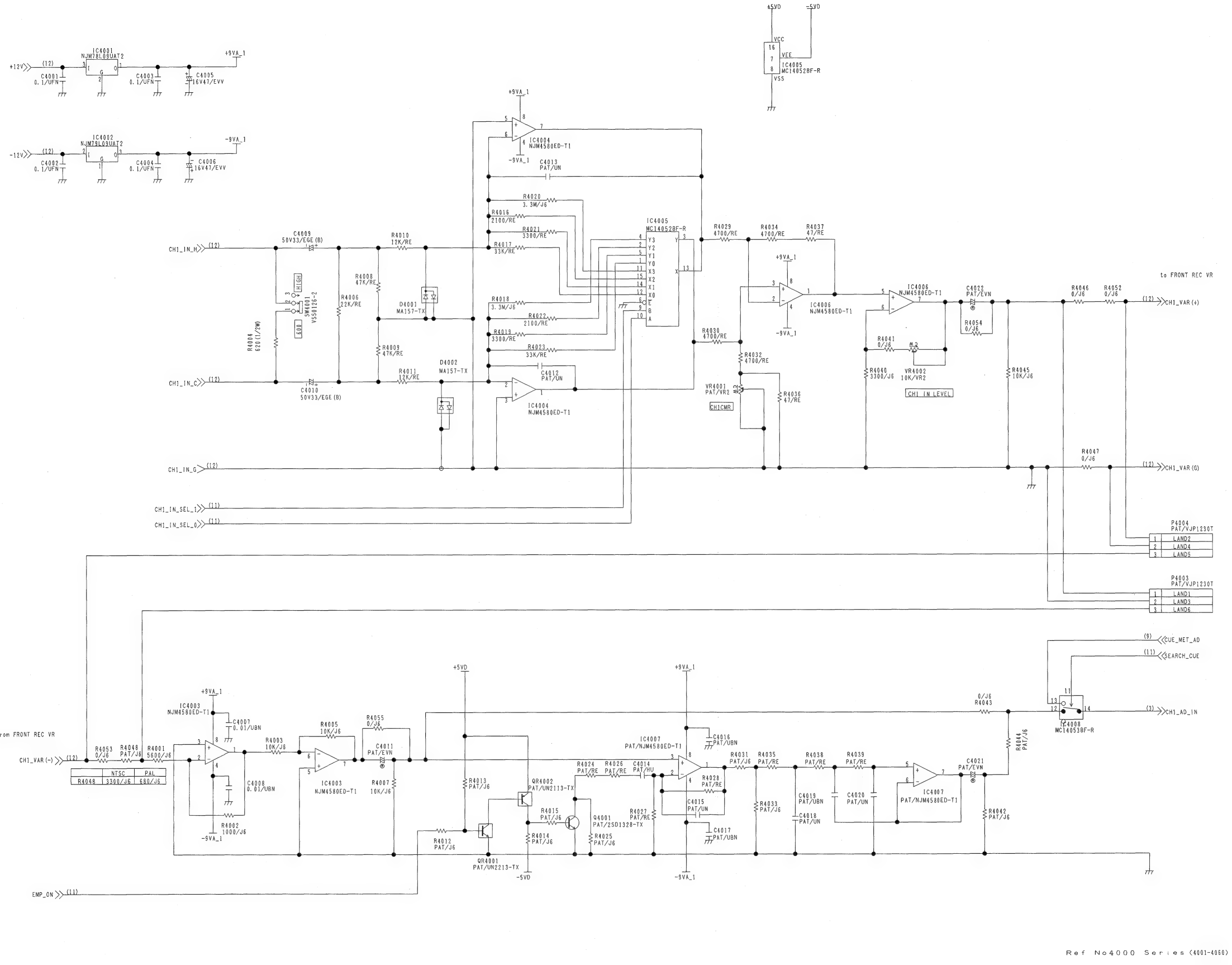
COMPONENT NAME	A_PROC(DIO)	10/13
CIRCUIT BOARD NO.	COMPONENT PATH	
VEP84292D:440		
VEP84292A:450		
KR4F27(10/13)	SCM132	



COMPONENT NAME	A_PROC(SIO)	11/13
CIRCUIT BOARD NO.	VEP84292D:440	COMPONENT PATH
	VEP84292A:450	
KR4F27(11/13)		SCM133

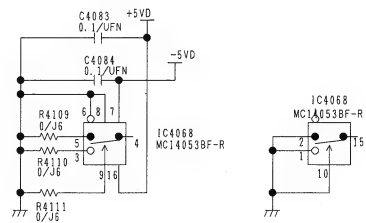




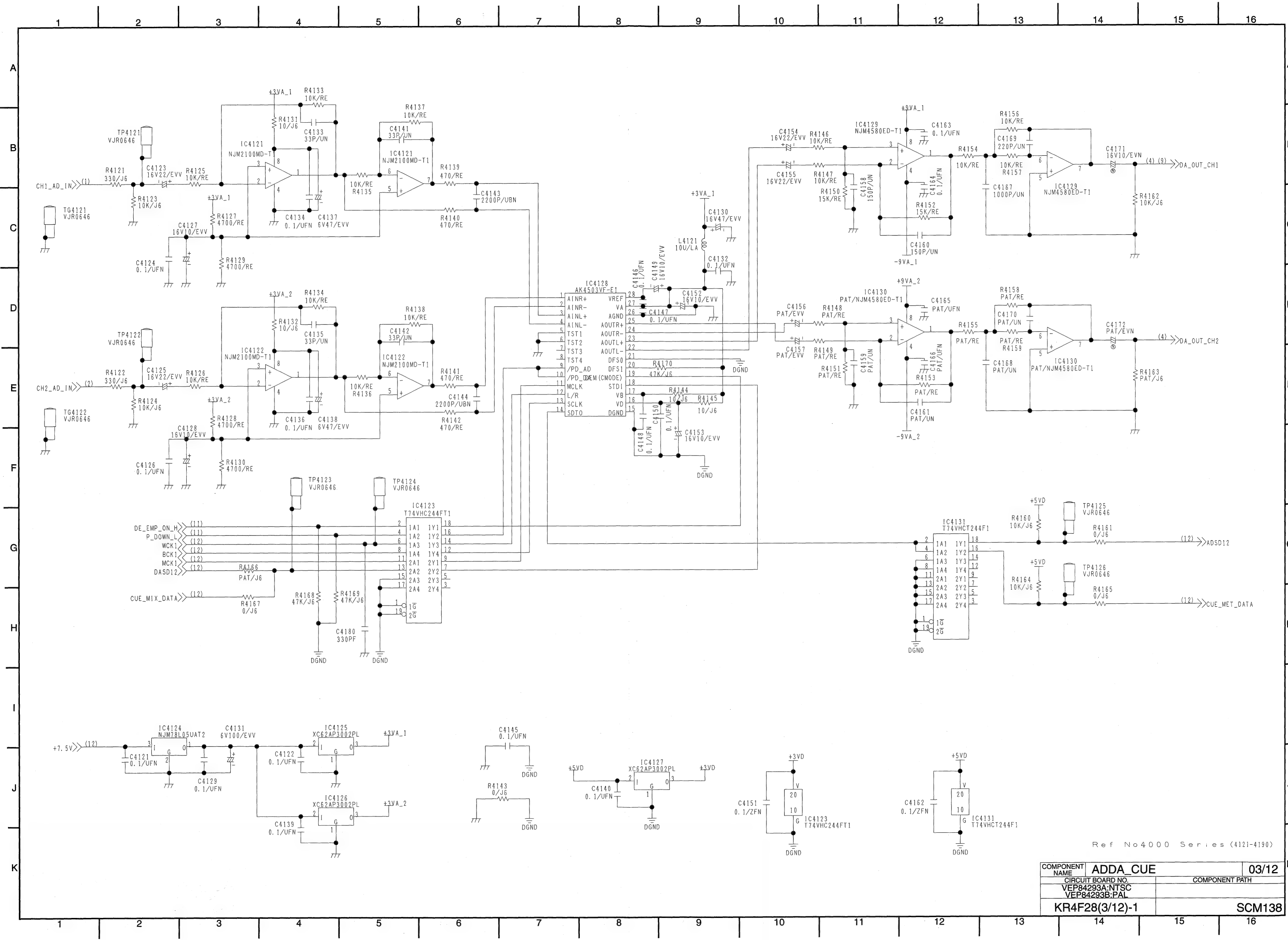


Ref No4000 Series (4001-4009)

COMPONENT NAME	ADDA_CUE	01/12
CIRCUIT BOARD NO.	VEP84293A:NTSC	COMPONENT PATH
	VEP84293B:PAL	
KR4F28(1/12)-1		SCM136

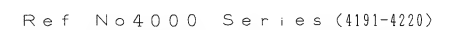


COMPONENT NAME	ADDA_CUE	02/12
CIRCUIT BOARD NO.	COMPONENT PATH	
VEP84293A:NTSC		
VEP84293B:PAL		
KR4F28(2/12)-1	SCM137	



Ref No4000 Series (4121-4190)

COMPONENT NAME	ADDA_CUE	03/12
CIRCUIT BOARD NO.	VEP84293A:NTSC	COMPONENT PATH
	VEP84293B:PAL	
KR4F28(3/12)-1		SCM138

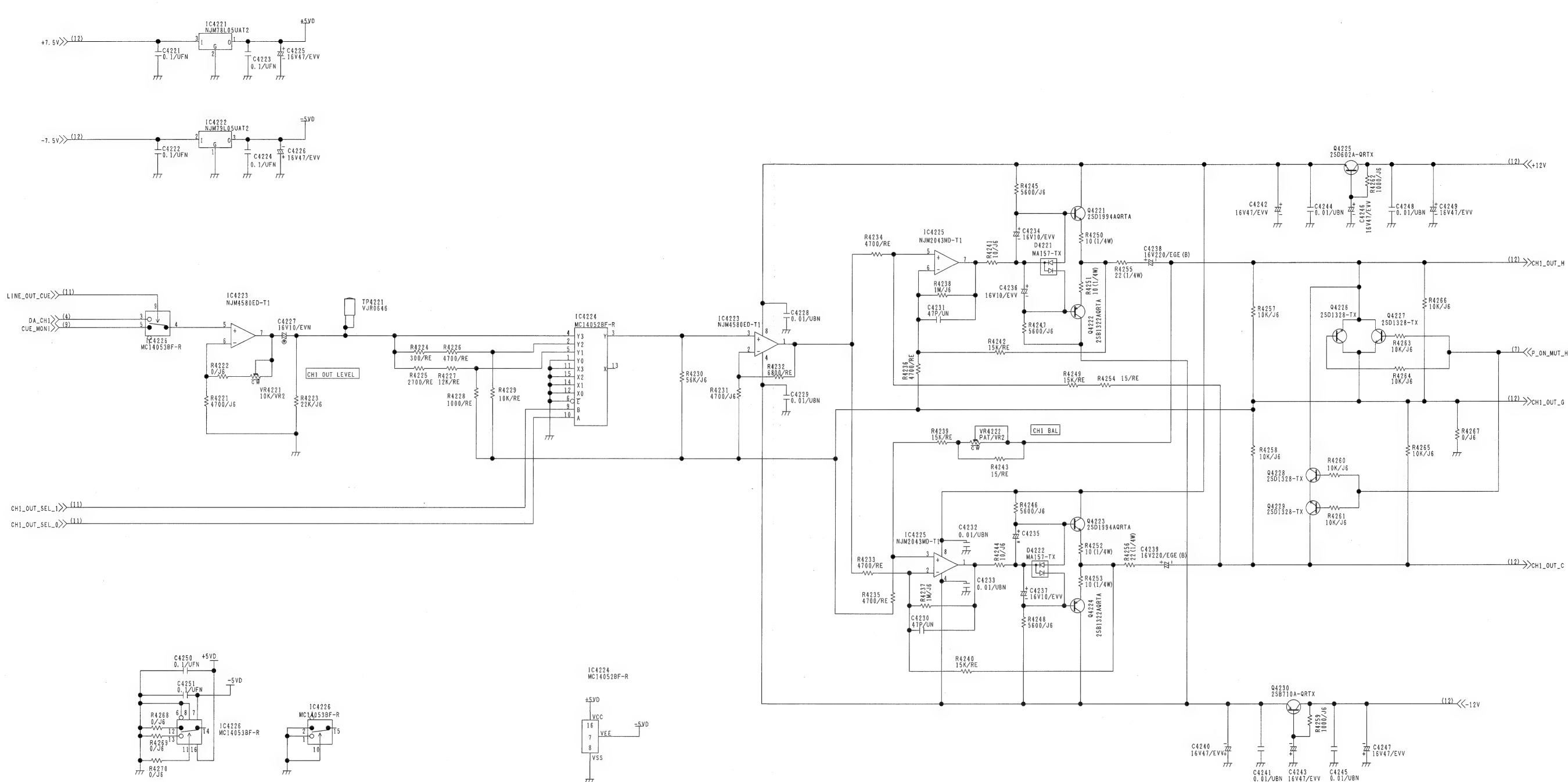


COMPONENT NAME	ADDA_CUE	04/12
CIRCUIT BOARD NO.	COMPONENT PATH	
VEP84293A:NTSC		
VEP84293B:PAL		
KR4F28(4/12)-1	SCM139	

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16

A
B
C
D
E
F
G
H
I
J
K

A
B
C
D
E
F
G
H
I
J
K

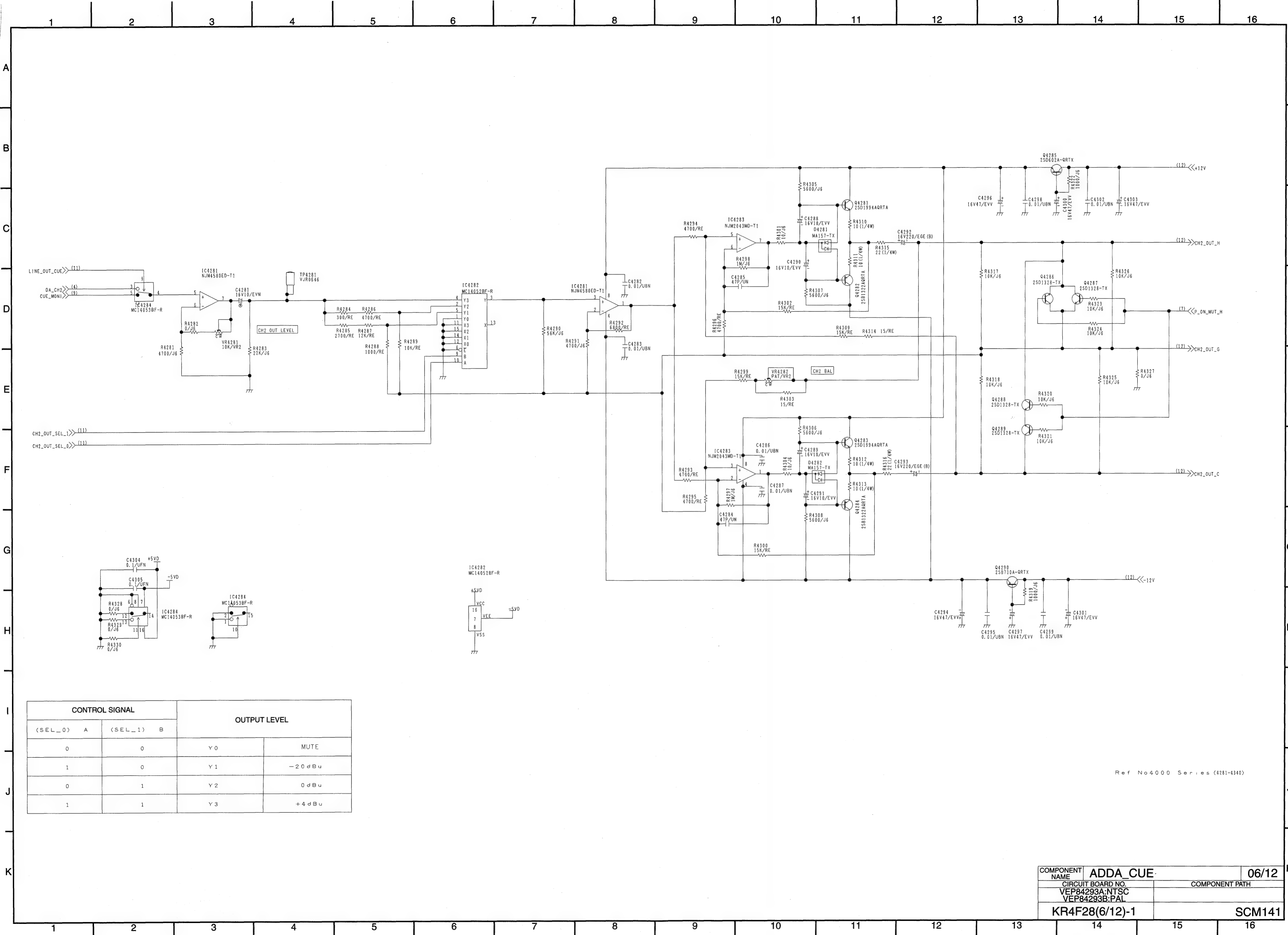


CONTROL SIGNAL		OUTPUT LEVEL	
(SEL_0)	A	(SEL_1)	B
0	0	Y0	MUTE
1	0	Y1	-20 dBu
0	1	Y2	0 dBu
1	1	Y3	+4 dBu

Ref No 4000 Series (4221-4280)

COMPONENT NAME	ADDA_CUE	05/12
CIRCUIT BOARD NO.	VEP84293A:NTSC	COMPONENT PATH
	VEP84293B:PAL	
KR4F28(5/12)-1		SCM140

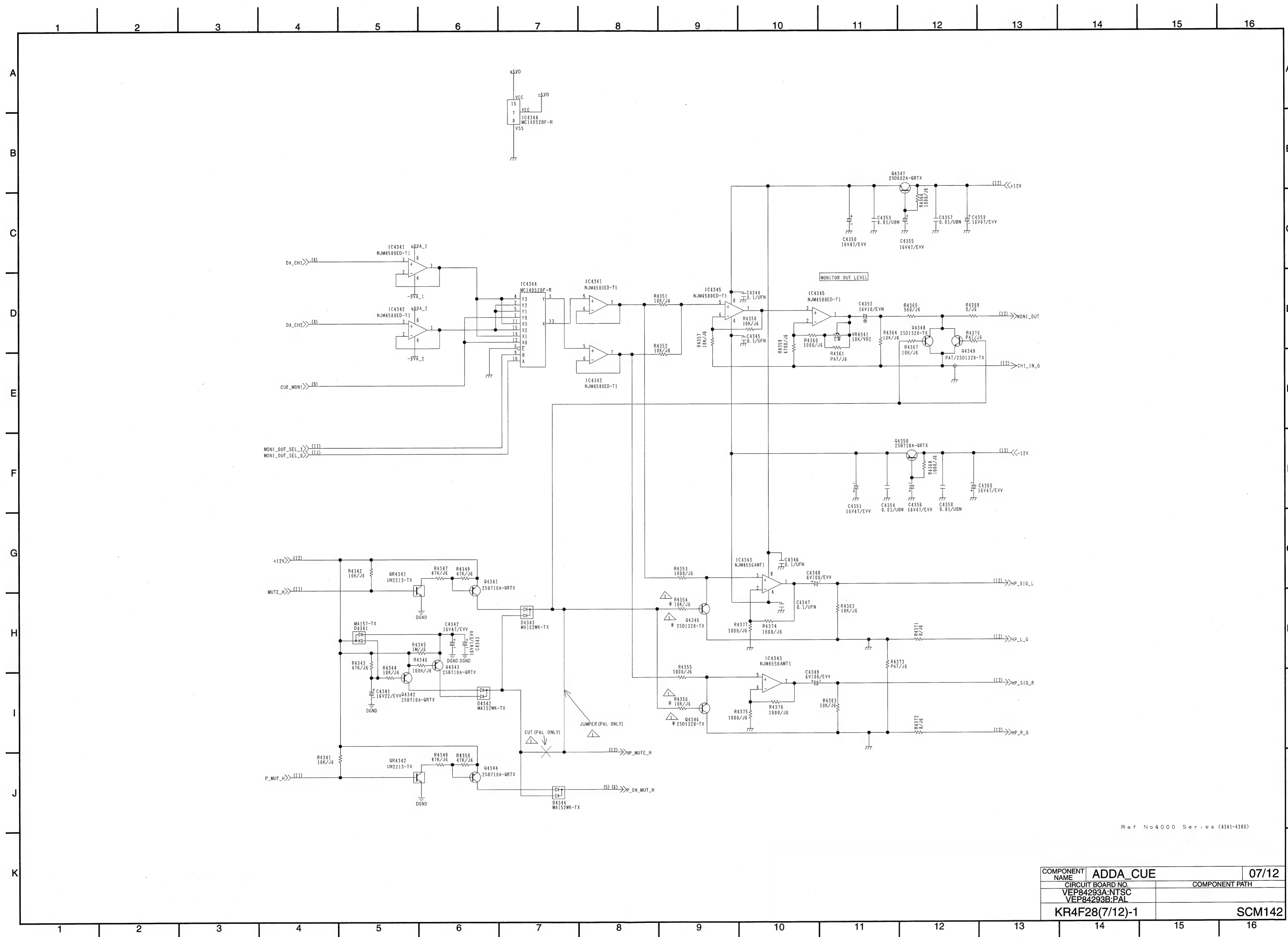
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16



CONTROL SIGNAL		OUTPUT LEVEL	
(SEL_0)	(SEL_1)		
0	0	Y0	MUTE
1	0	Y1	-20dBu
0	1	Y2	0dBu
1	1	Y3	+4dBu

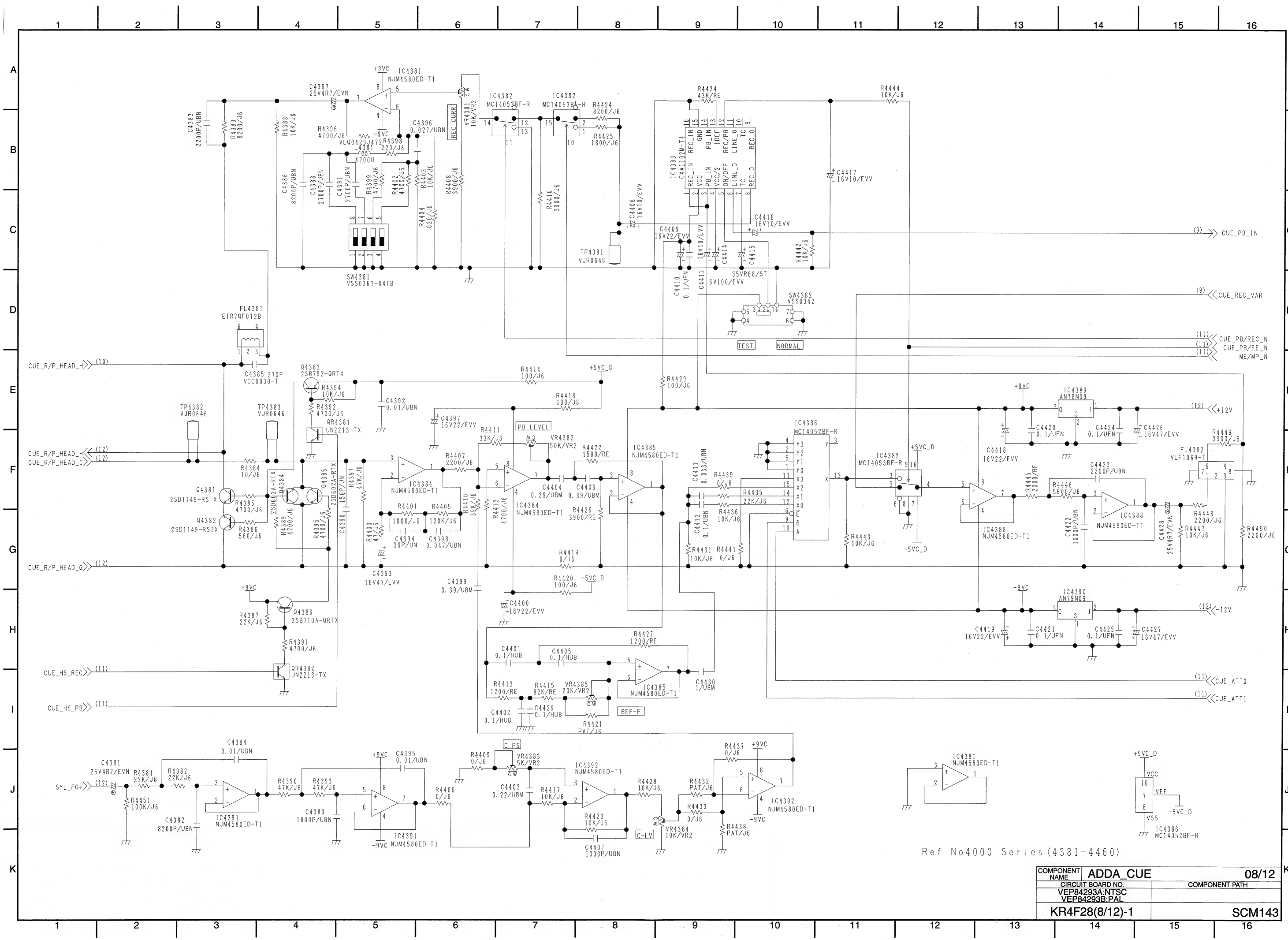
Ref No4000 Series (4281-4340)

COMPONENT NAME	ADDA CUE	06/12
CIRCUIT BOARD NO.	VEP84293A:NTSC	COMPONENT PATH
	VEP84293B:PAL	
KR4F28(6/12)-1		SCM141

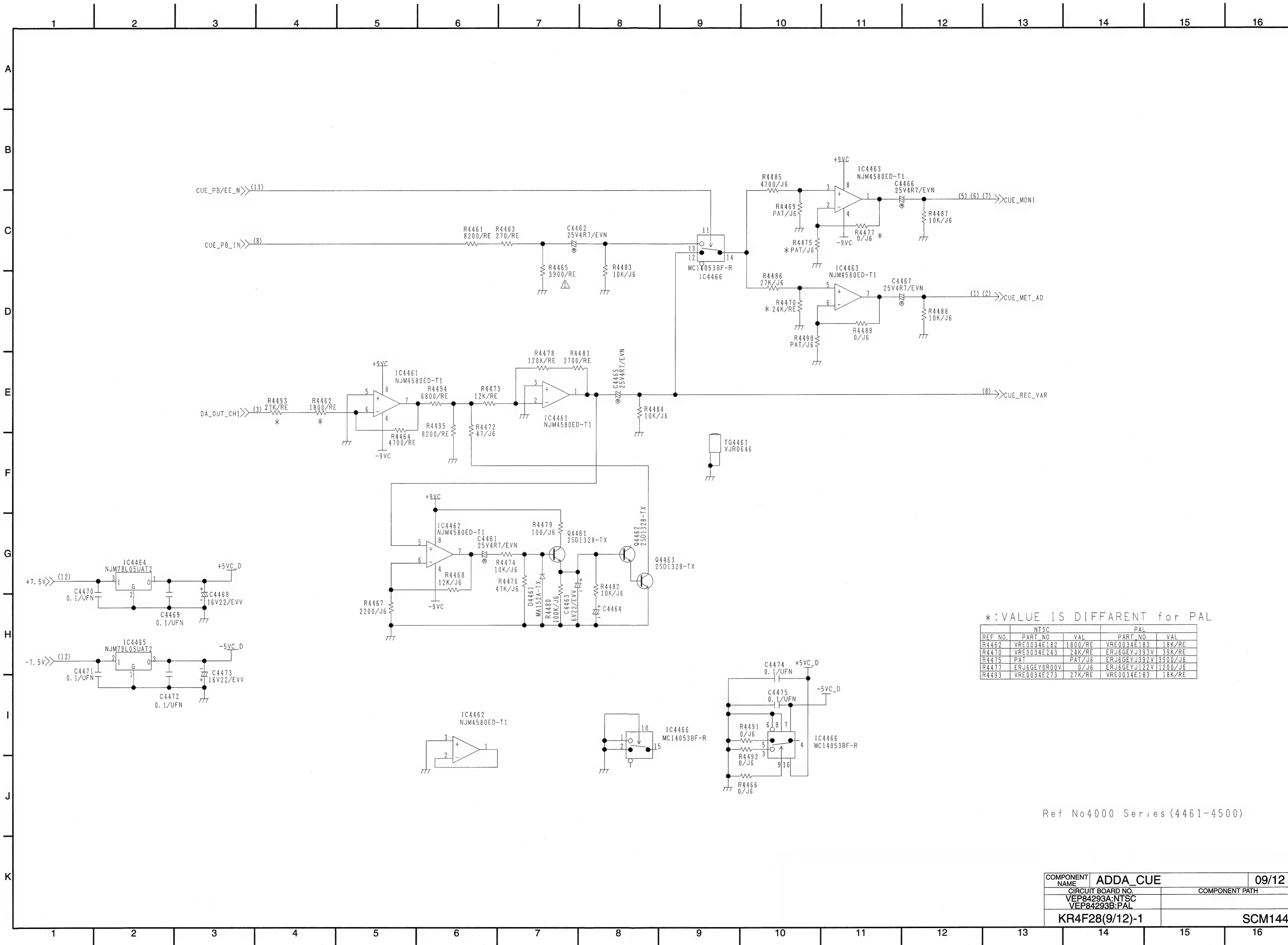


Ref No4000 Series (4341-4380)

COMPONENT NAME	ADDA_CUE	07/12
CIRCUIT BOARD NO.	VEP84293A:NTSC	COMPONENT PATH
	VEP84293B:PAL	
KR4F28(7/12)-1		SCM142



COMPONENT NAME	ADDA_CUE	08/12
CIRCUIT BOARD NO.	VEP84293A:NTSC	COMPONENT PATH
	VEP84293B:PAL	
KR4F28(8/12)-1		SCM143



*:VALUE IS DIFFERENT for PAL

REF NO.	NTSC		PAL	
	PART NO	VAL	PART NO	VAL
R4462	VRE0034E182	1800/RE	VRE0034E183	18K/RE
R4470	VRE0034E243	24K/RE	ERJ6GEYJ393V	39K/RE
R4475	PAT	PAT/J6	ERJ6GEYJ392V	3900/J6
R4477	ERJ6GEYJ000V	0/J6	ERJ6GEYJ122V	1200/J6
R4493	VRE0034E273	27K/RE	VRE0034E183	18K/RE

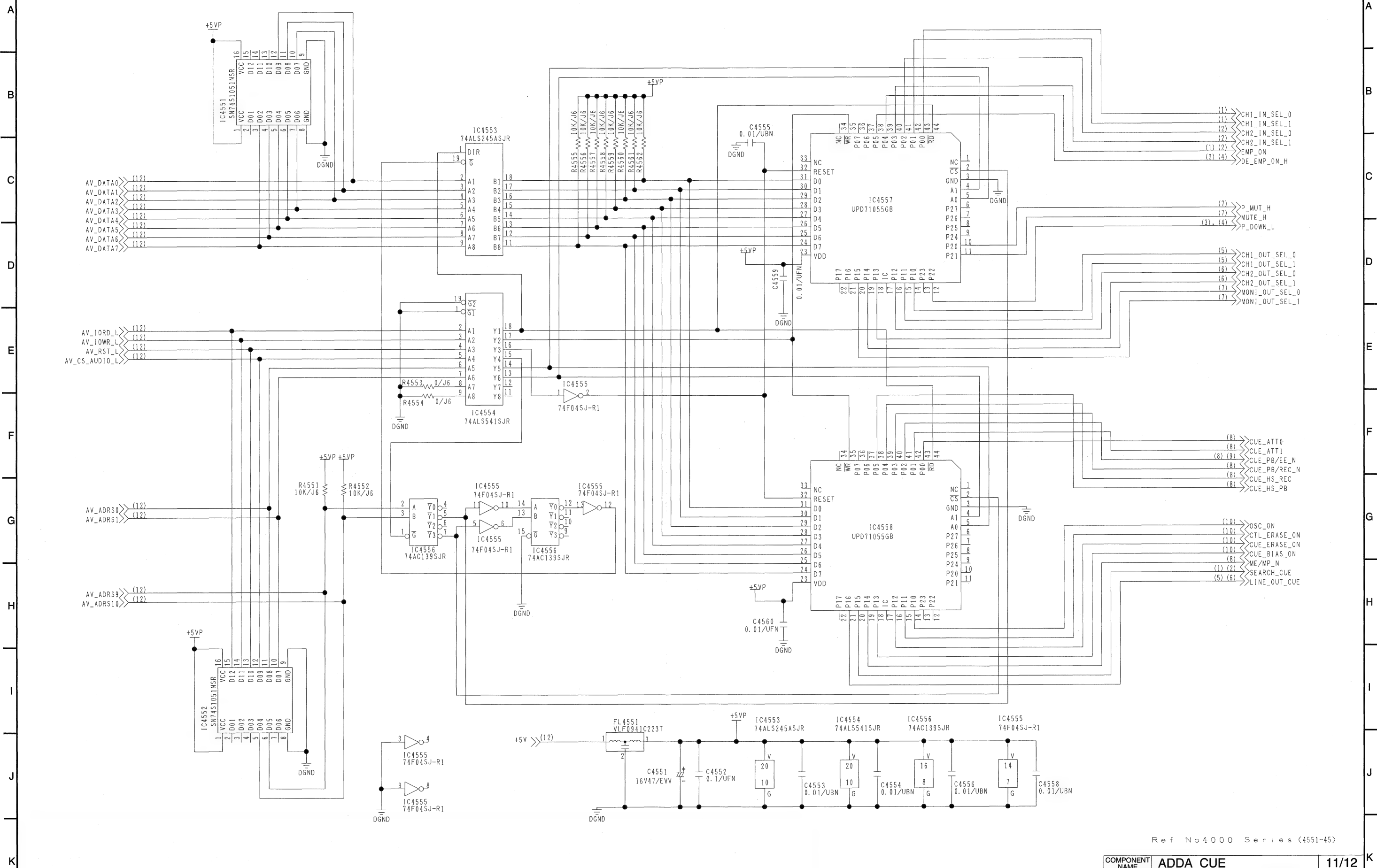
Ref No4000 Series (4461-4500)

COMPONENT NAME	ADDA_CUE	09/12
CIRCUIT BOARD NO.	VEP84293A:NTSC	COMPONENT PATH
	VEP84293B:PAL	
KR4F28(9/12)-1		SCM144



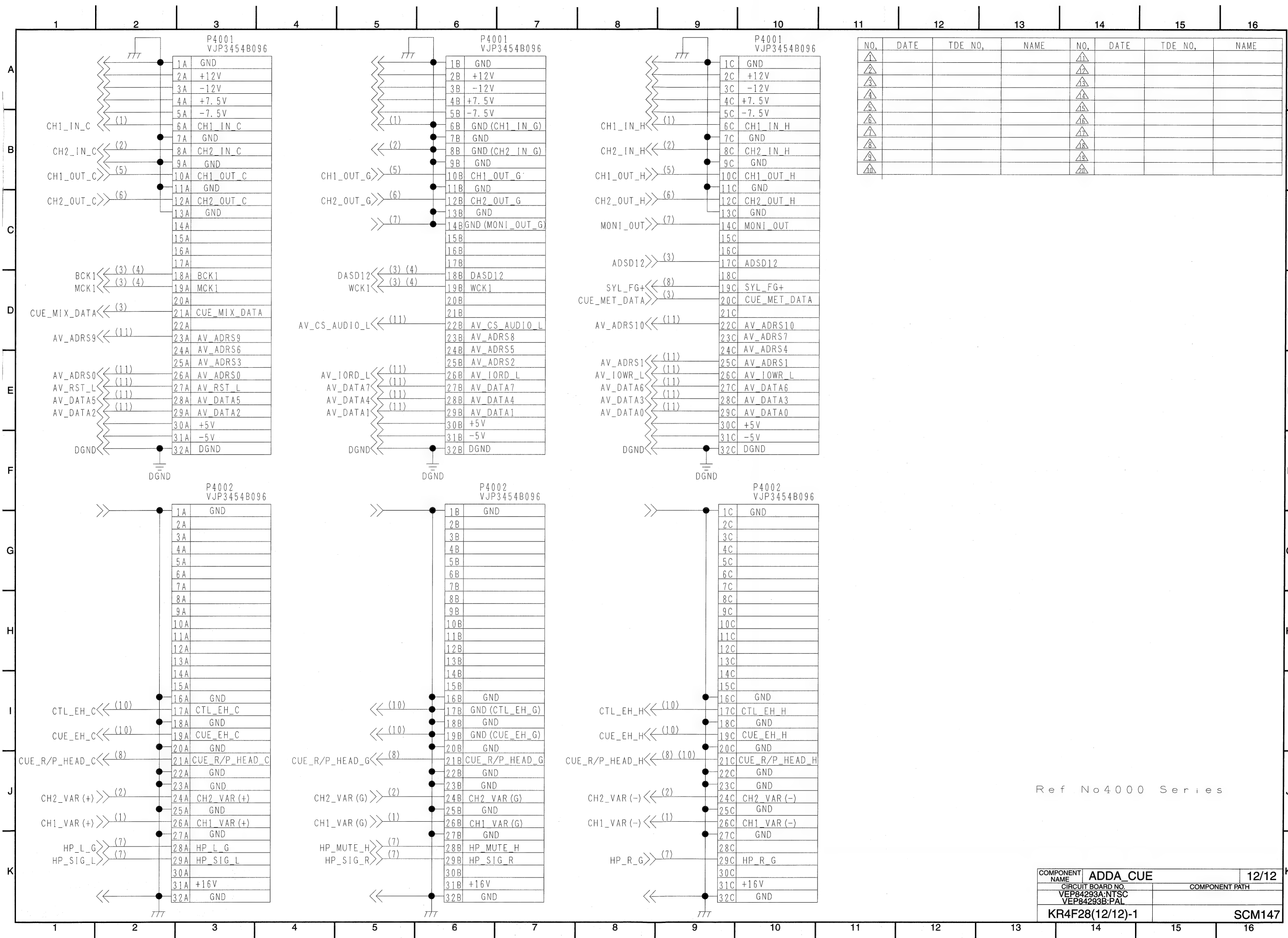
COMPONENT NAME	ADDA_CUE	10/12
CIRCUIT BOARD NO.	COMPONENT PATH	
VEP84293A:NTSC		
VEP84293B:PAL		
KR4F28(10/12)-1	SCM145	

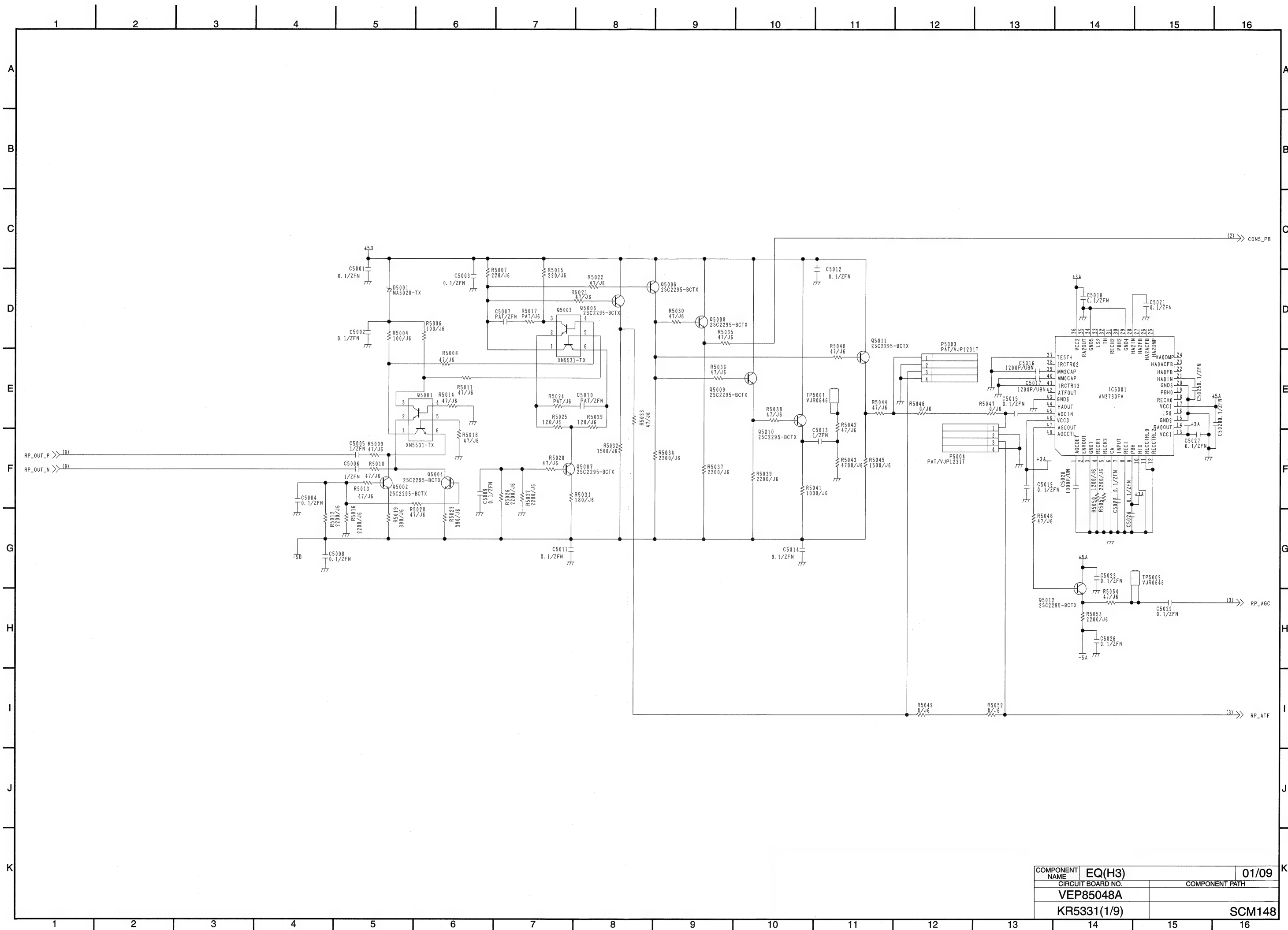
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16



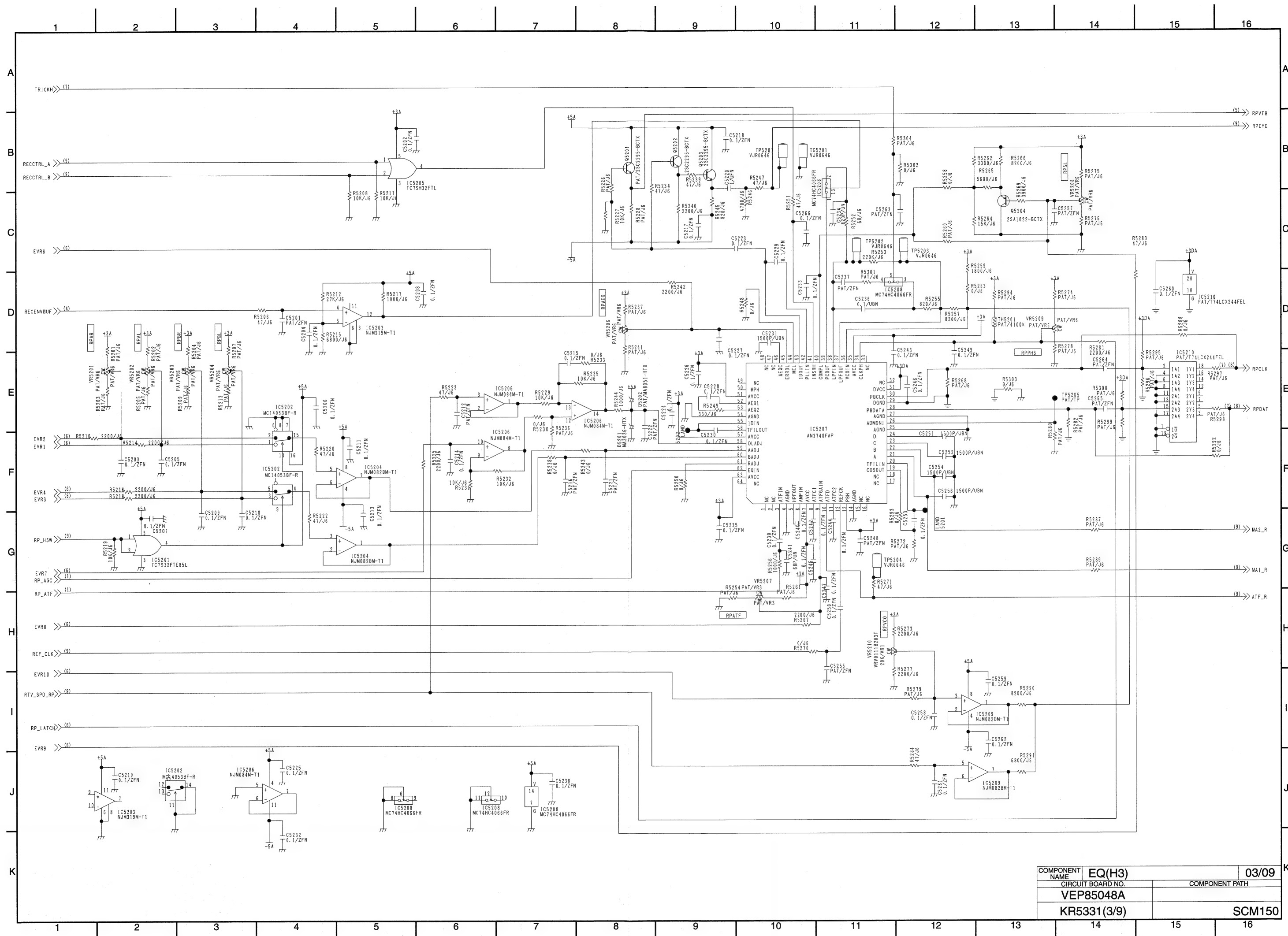
COMPONENT NAME	ADDA_CUE	11/12
CIRCUIT BOARD NO.	VEP84293A:NTSC	COMPONENT PATH
	VEP84293B:PAL	
KR4F28(11/12)-1		SCM146

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16

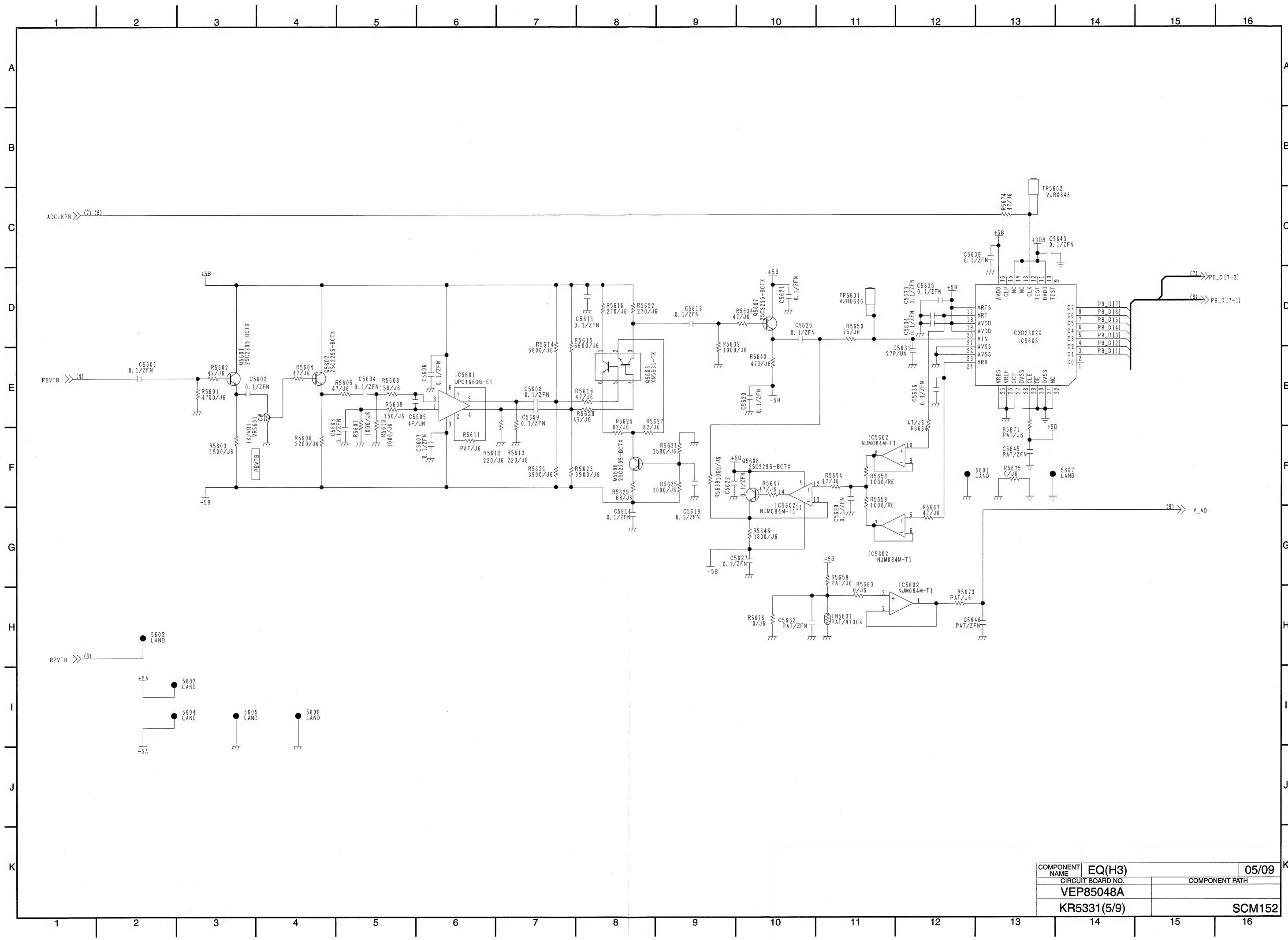




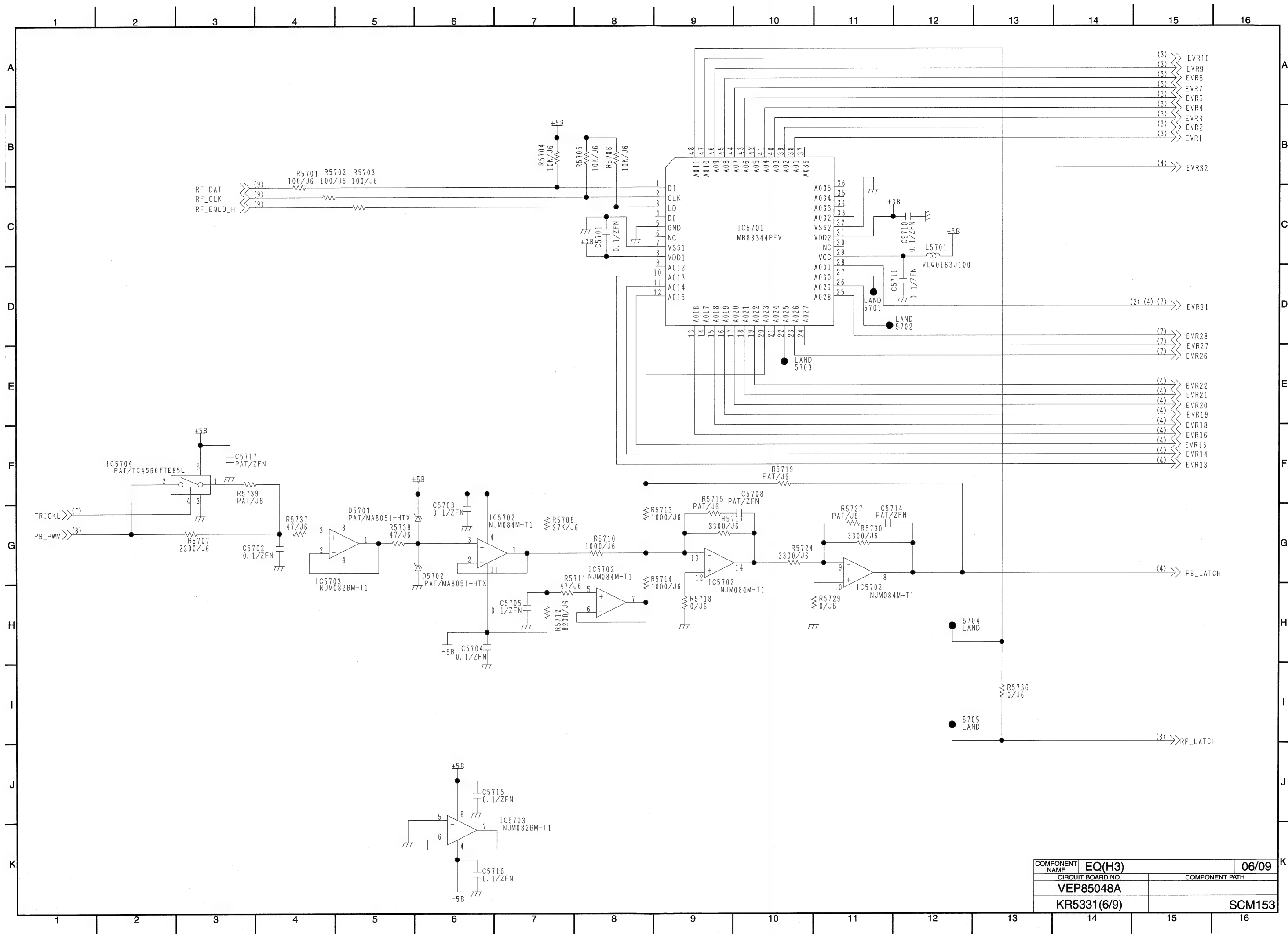
COMPONENT NAME	EQ(H3)	01/09
CIRCUIT BOARD NO.	VEP85048A	COMPONENT PATH
	KR5331(1/9)	SCM148



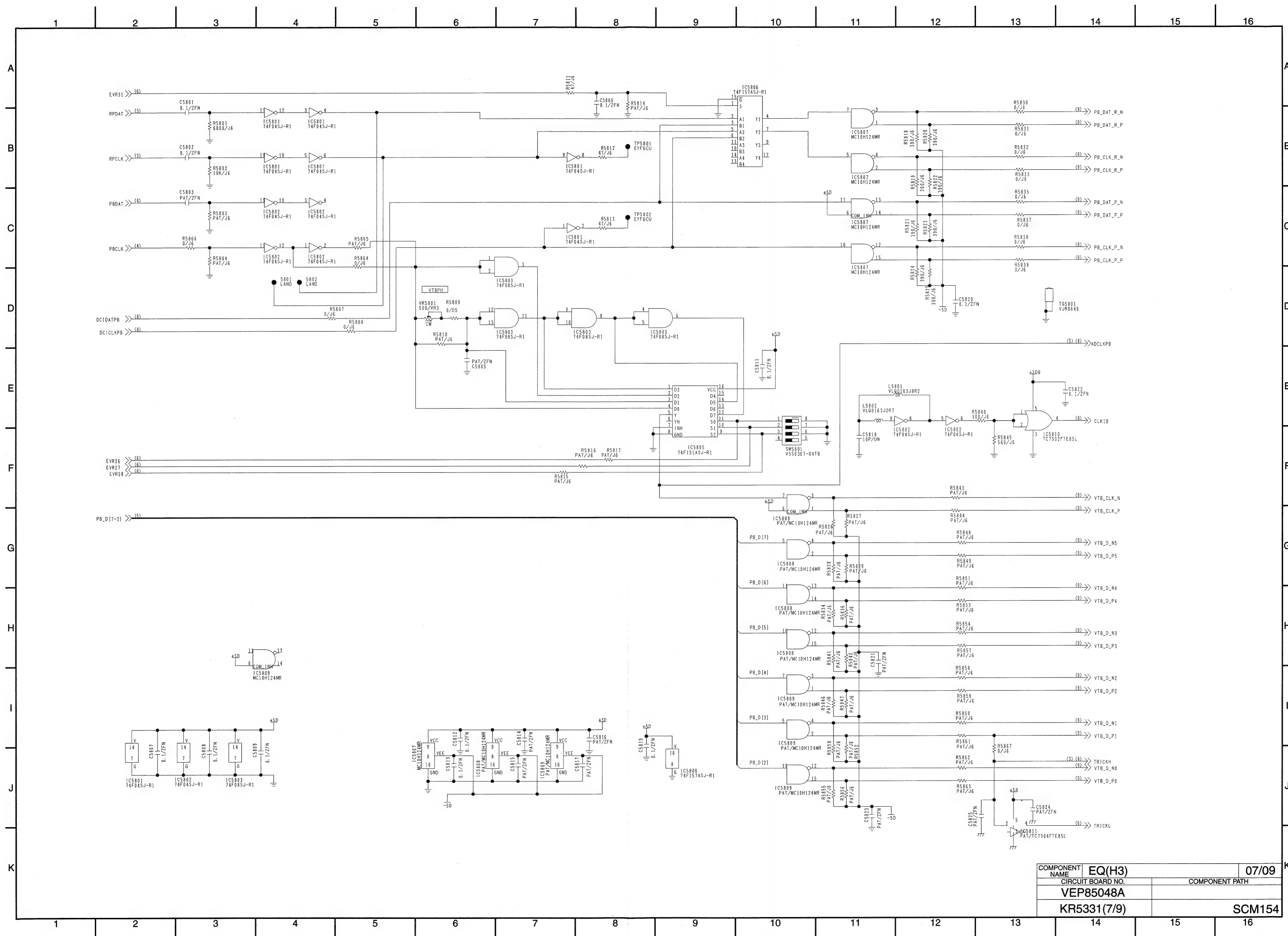
COMPONENT NAME	EQ(H3)	03/09
CIRCUIT BOARD NO.	COMPONENT PATH	
VEP85048A		
KR5331(3/9)	SCM150	



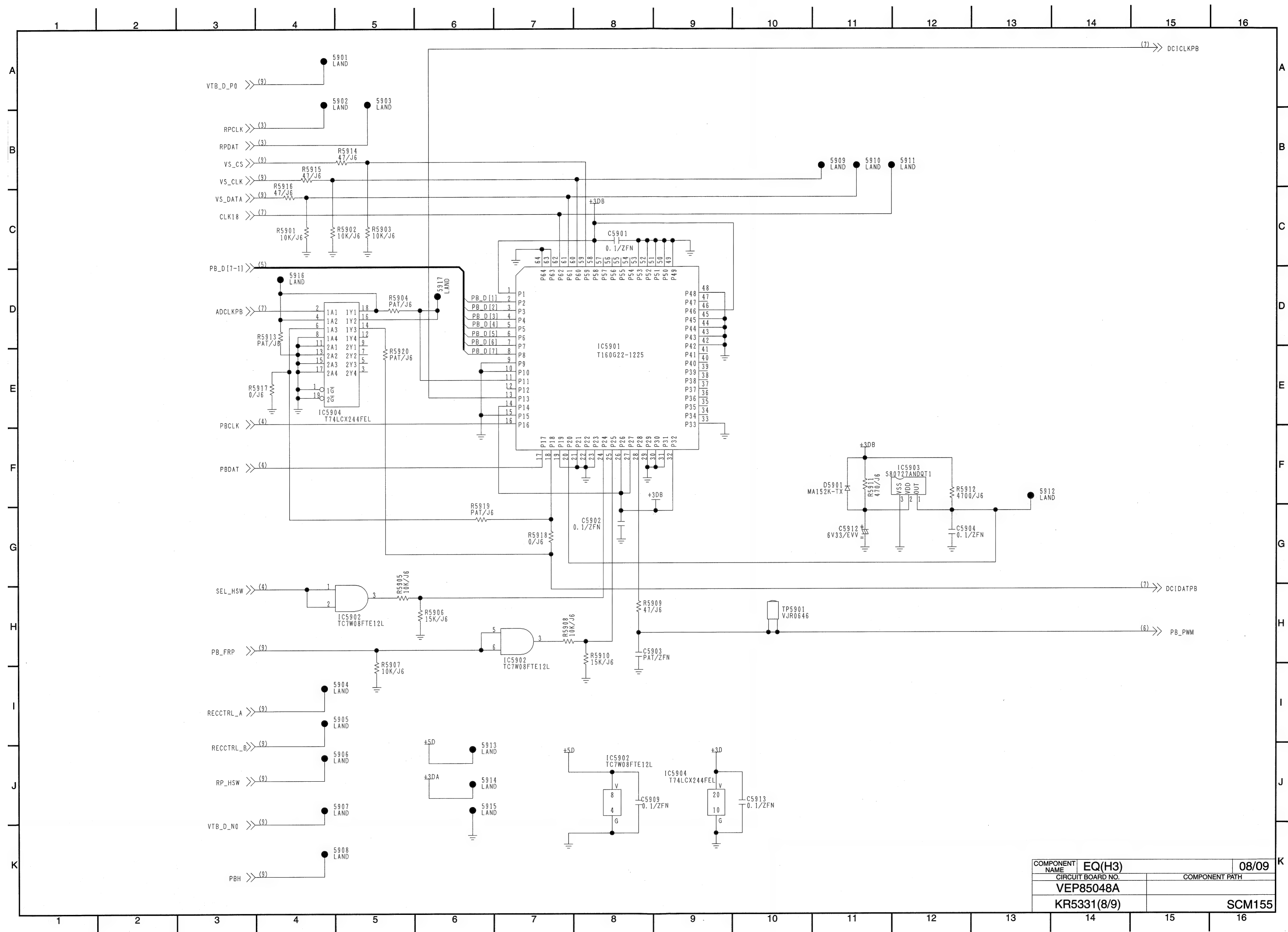
COMPONENT NAME	EQ(H3)	05/09
CIRCUIT BOARD NO.	VEP85048A	COMPONENT PATH
	KR5331(5/9)	SCM152



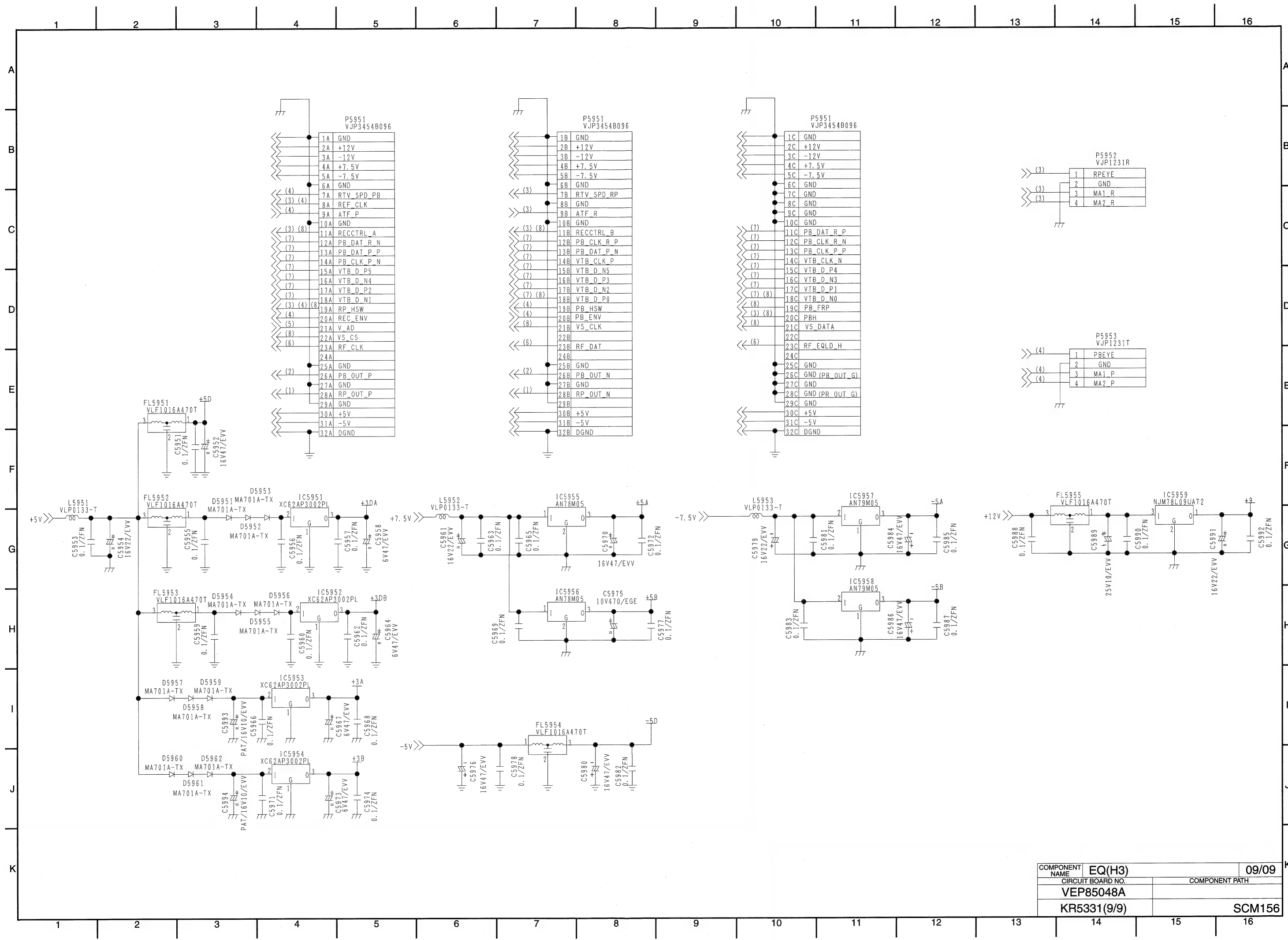
COMPONENT NAME	EQ(H3)	06/09
CIRCUIT BOARD NO.	VEP85048A	COMPONENT PATH
	KR5331(6/9)	SCM153



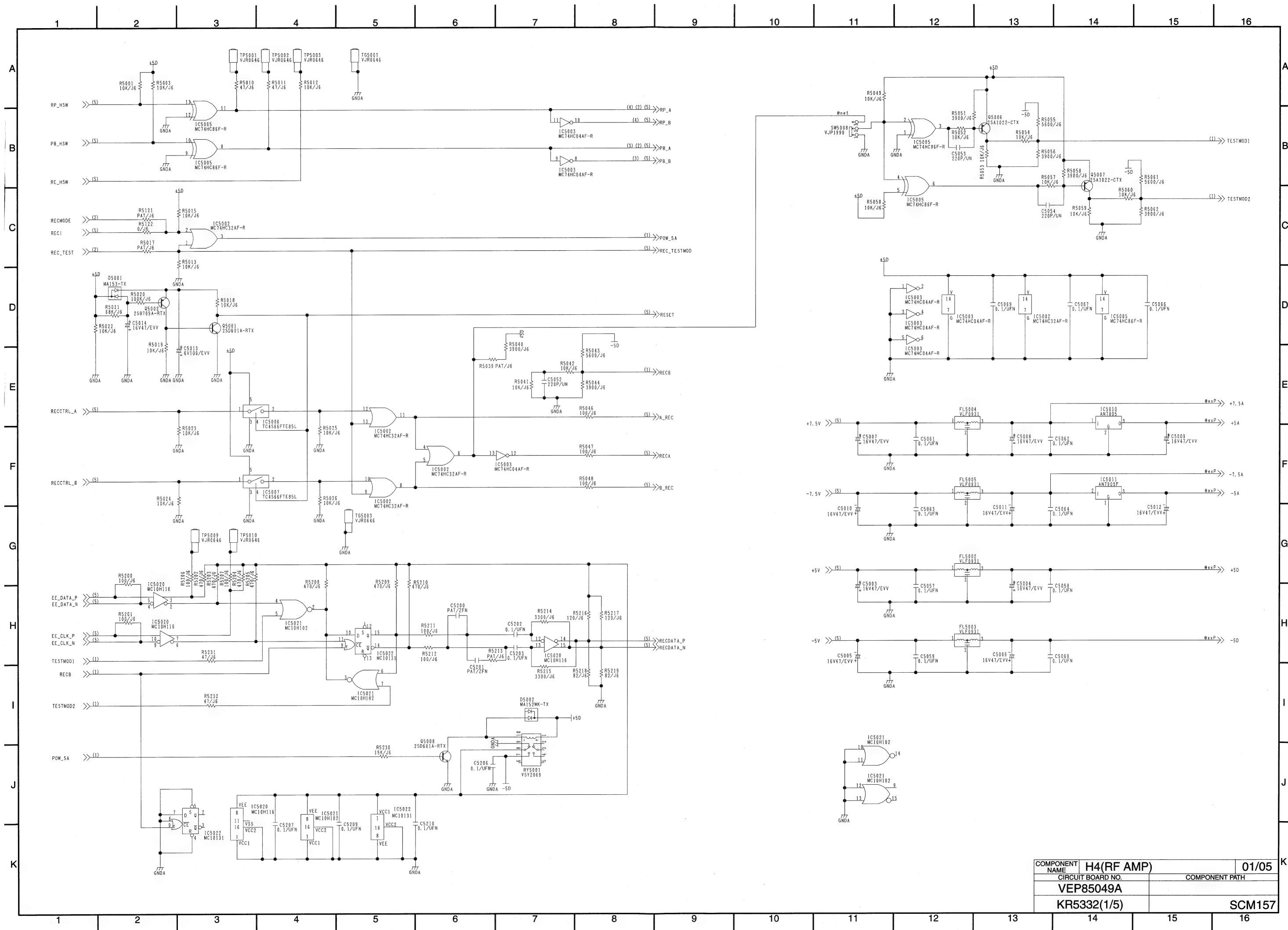
COMPONENT NAME	EQ(H3)	07/09
CIRCUIT BOARD NO.	COMPONENT PATH	
VEP85048A		
KR5331(7/9)	SCM154	



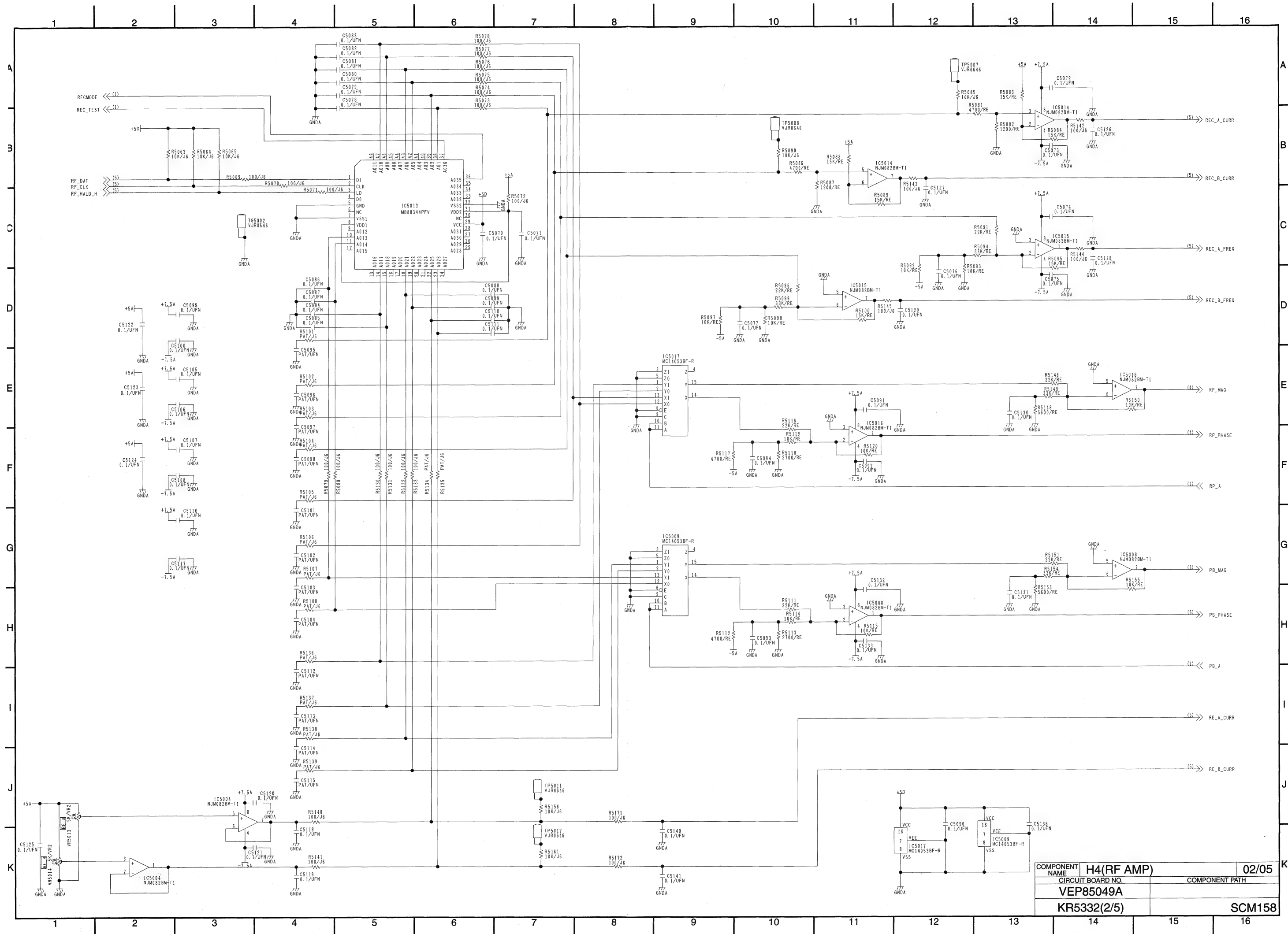
COMPONENT NAME	EQ(H3)	08/09
CIRCUIT BOARD NO.	COMPONENT PATH	
VEP85048A		
KR5331(8/9)	SCM155	

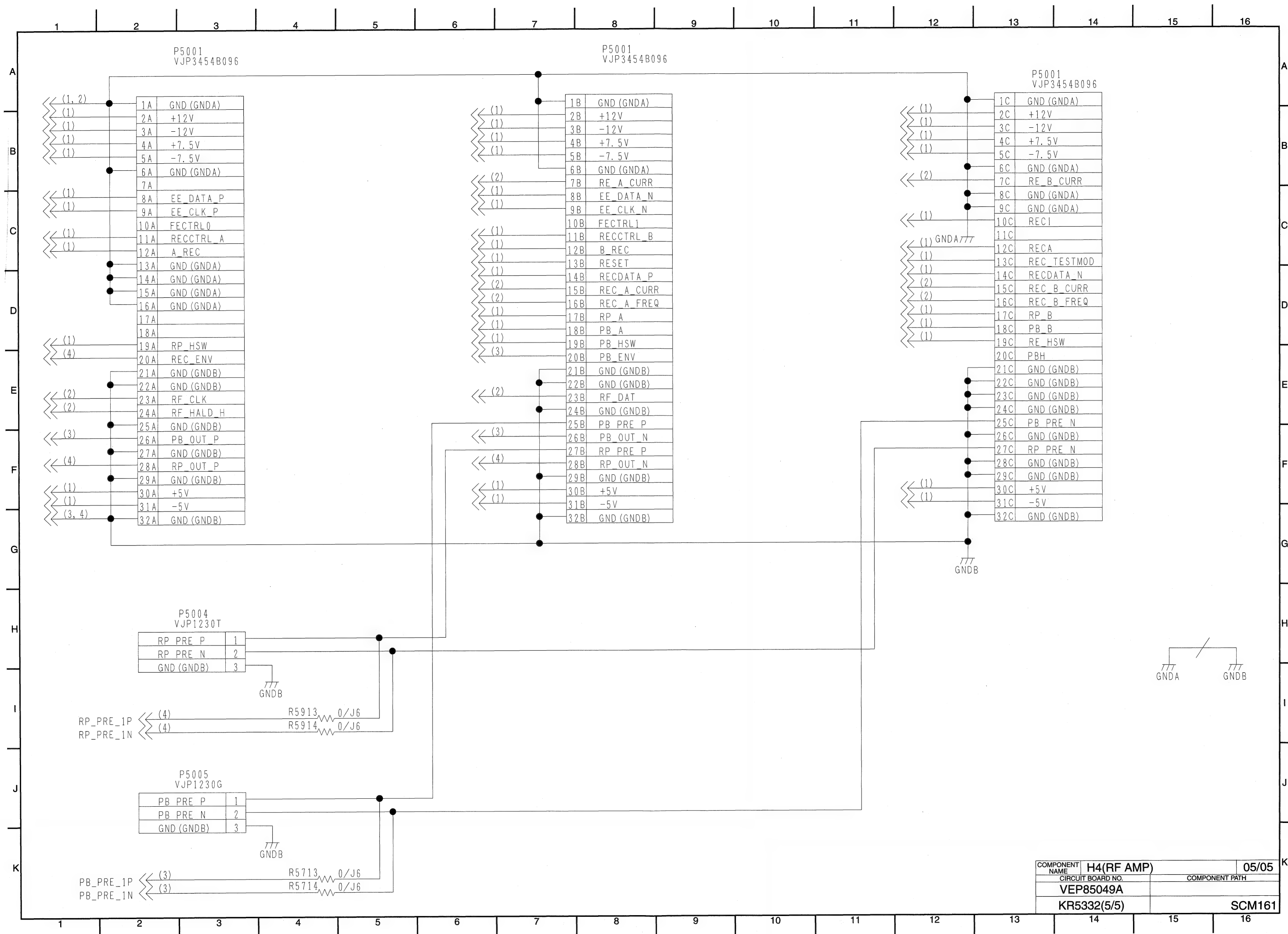


COMPONENT NAME	EQ(H3)	09/09
CIRCUIT BOARD NO.	VEP85048A	COMPONENT PATH
KR5331(9/9)		SCM156

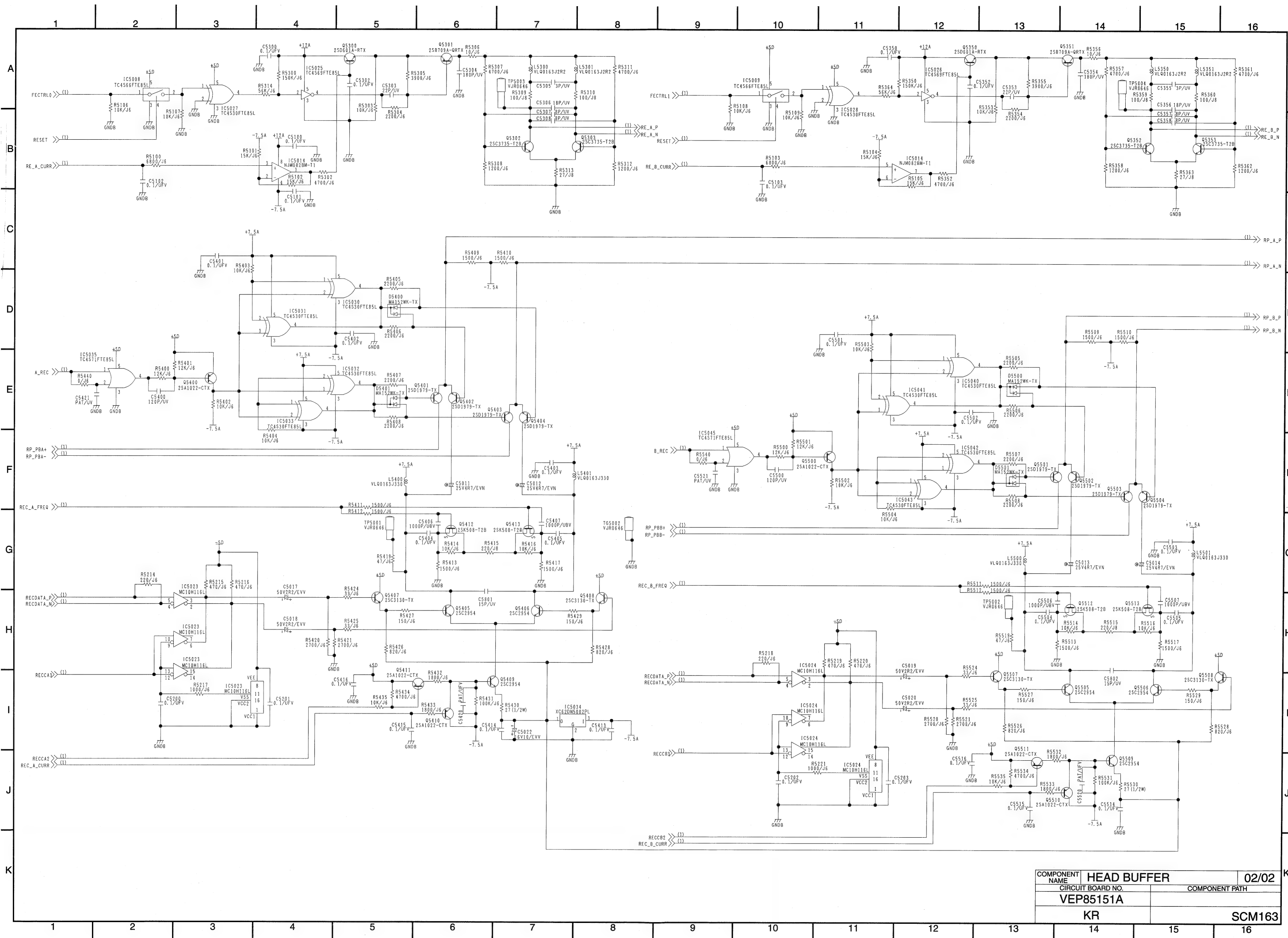


COMPONENT NAME	H4(RF AMP)	01/05
CIRCUIT BOARD NO.	COMPONENT PATH	
VEP85049A		
KR5332(1/5)	SCM157	

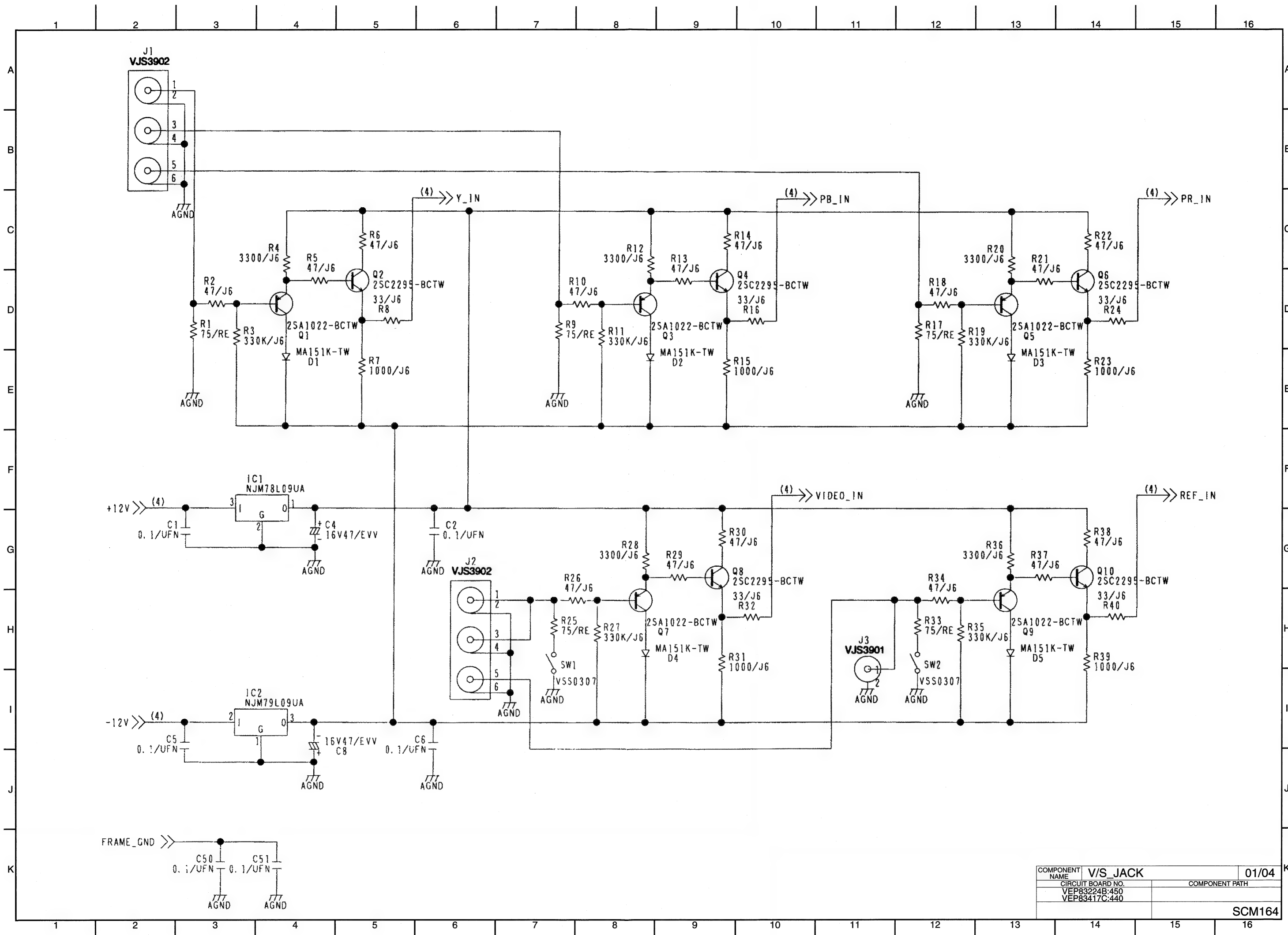




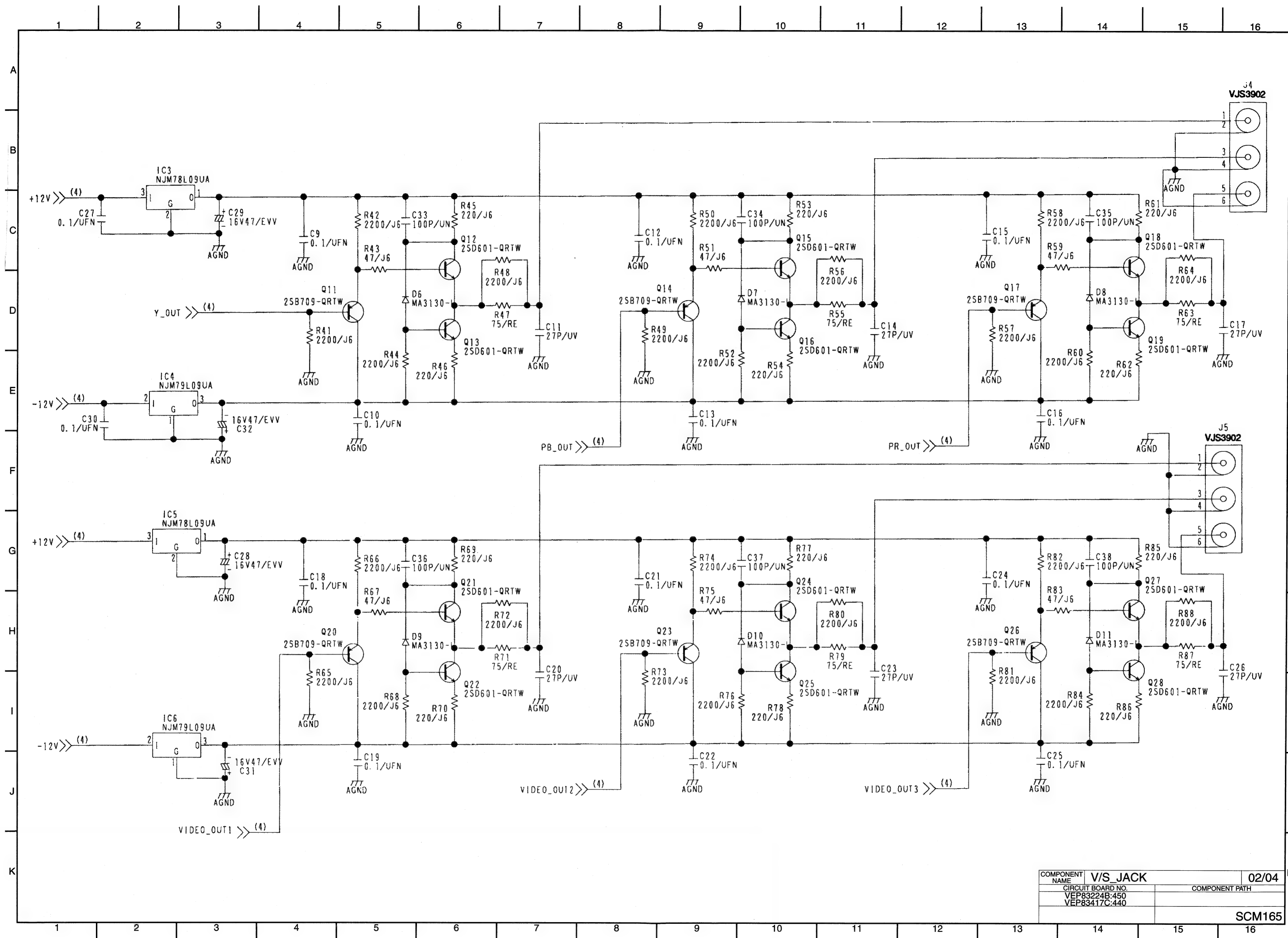
COMPONENT NAME	H4(RF AMP)	05/05
CIRCUIT BOARD NO.	VEP85049A	COMPONENT PATH
KR5332(5/5)	SCM161	



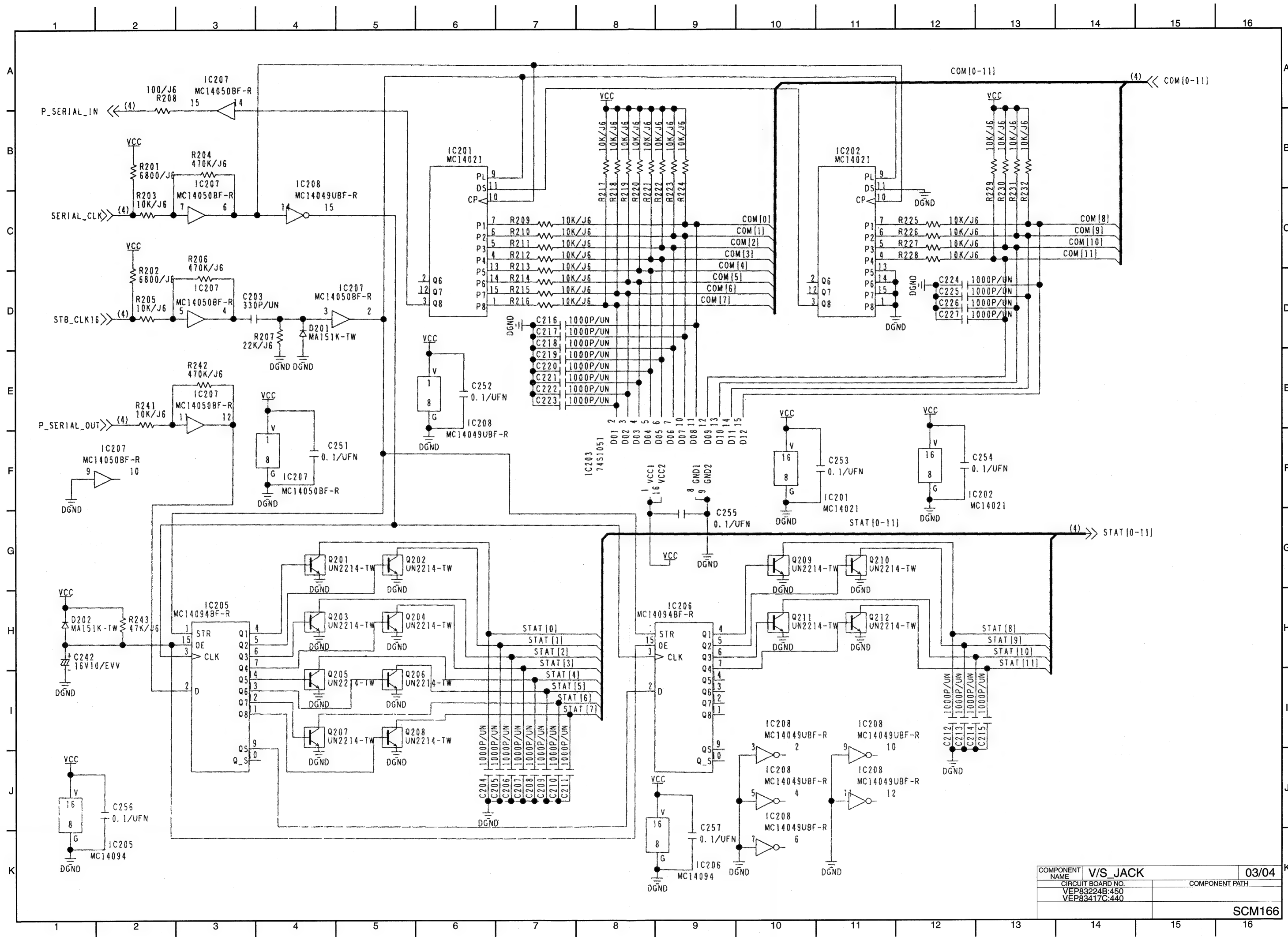
COMPONENT NAME	HEAD BUFFER	02/02
CIRCUIT BOARD NO.	VEP85151A	COMPONENT PATH
	KR	SCM163



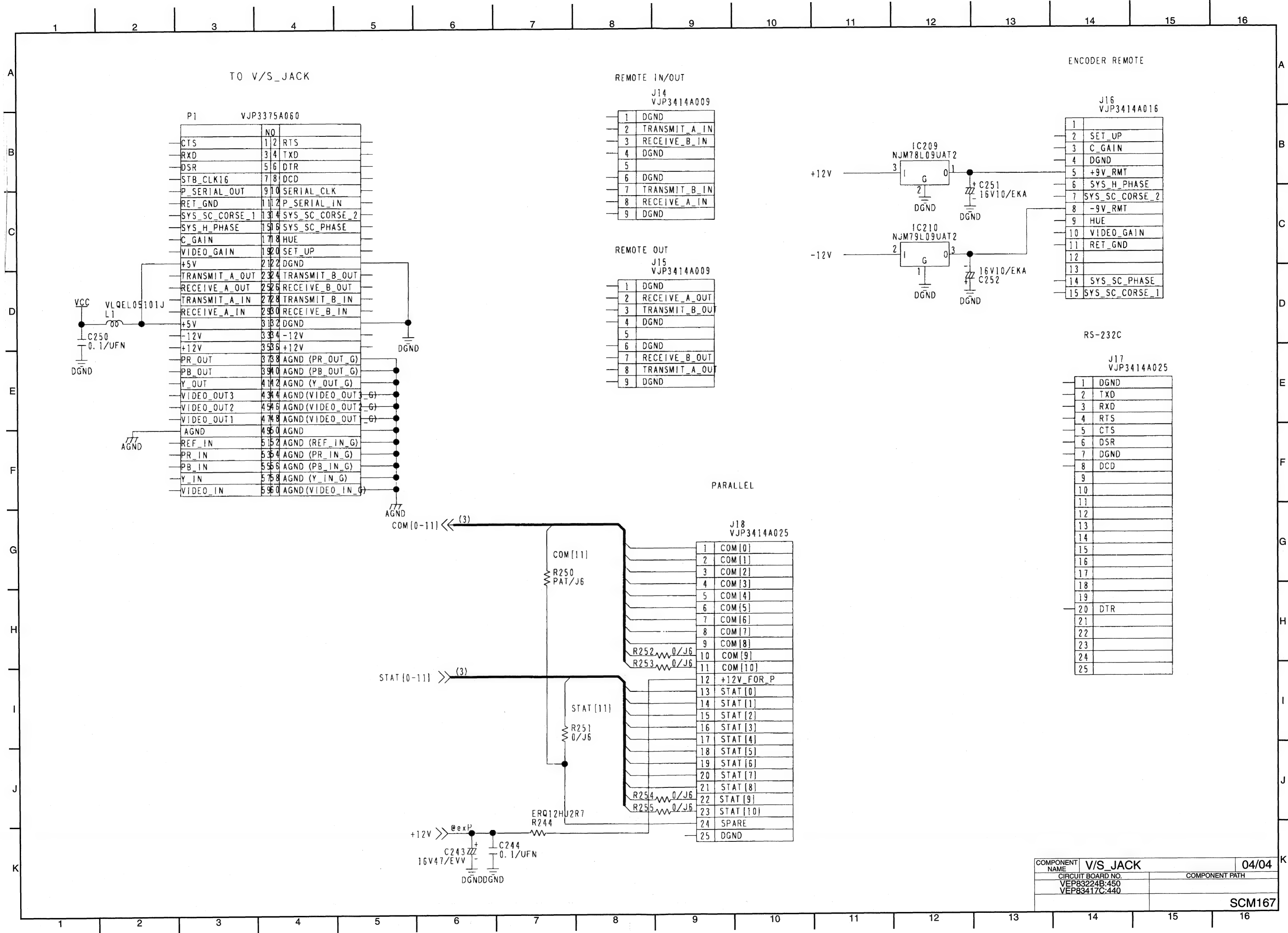
COMPONENT NAME	V/S_JACK	01/04
CIRCUIT BOARD NO.	VEP83224B:450	COMPONENT PATH
	VEP83417C:440	
SCM164		



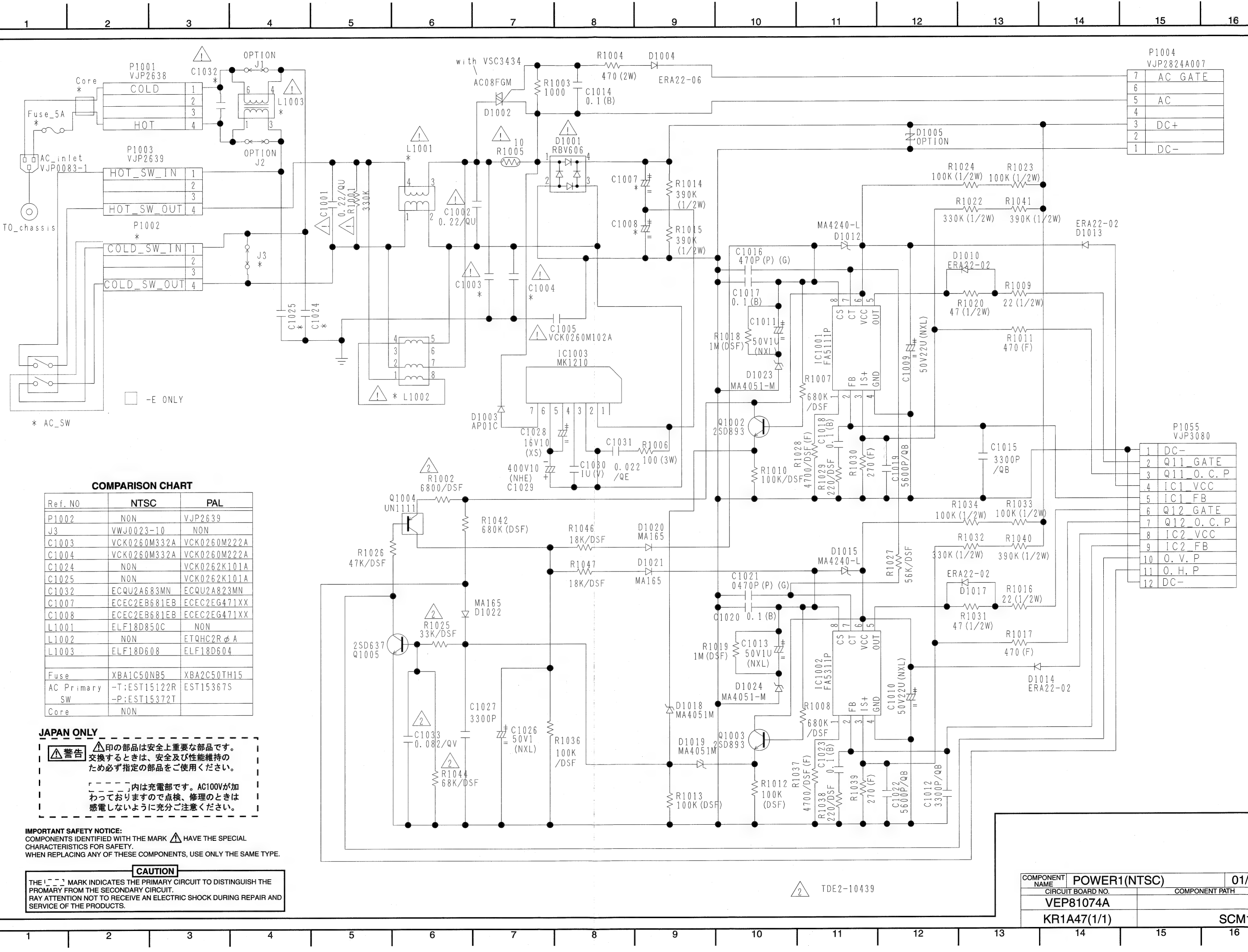
COMPONENT NAME	V/S_JACK	02/04
CIRCUIT BOARD NO.	VEP83224B:450	COMPONENT PATH
	VEP83417C:440	
SCM165		



COMPONENT NAME	V/S JACK	03/04
CIRCUIT BOARD NO.	VEP83224B:450	COMPONENT PATH
	VEP83417C:440	
SCM166		



COMPONENT NAME	V/S_JACK	04/04
CIRCUIT BOARD NO.	VEP83224B:450	COMPONENT PATH
	VEP83417C:440	
		SCM167



COMPARISON CHART

Ref. NO	NTSC	PAL
P1002	NON	VJP2639
J3	VWJ0023-10	NON
C1003	VCK0260M332A	VCK0260M222A
C1004	VCK0260M332A	VCK0260M222A
C1024	NON	VCK0262K101A
C1025	NON	VCK0262K101A
C1032	ECQU2A683MN	ECQU2A823MN
C1007	ECEC2EB681EB	ECEC2EG471XX
C1008	ECEC2EB681EB	ECEC2EG471XX
L1001	ELF18D850C	NON
L1002	NON	ETQHC2RφA
L1003	ELF18D608	ELF18D604
Fuse	XBA1C50NB5	XBA2C50TH15
AC Primary	-T:EST15122R	EST15367S
SW	-P:EST15372T	
Core	NON	

JAPAN ONLY

警告 印の部品は安全上重要な部品です。交換するときは、安全及び性能維持のため必ず指定の部品をご使用ください。

「**充電部**」内は充電部です。AC100Vが加わっておりますので点検、修理のときは感電しないように充分ご注意ください。


IMPORTANT SAFETY NOTICE:
COMPONENTS IDENTIFIED WITH THE MARK HAVE THE SPECIAL CHARACTERISTICS FOR SAFETY.
WHEN REPLACING ANY OF THESE COMPONENTS, USE ONLY THE SAME TYPE.

CAUTION

THE MARK INDICATES THE PRIMARY CIRCUIT TO DISTINGUISH THE PRIMARY FROM THE SECONDARY CIRCUIT.
RAY ATTENTION NOT TO RECEIVE AN ELECTRIC SHOCK DURING REPAIR AND SERVICE OF THE PRODUCTS.

COMPONENT NAME	POWER1(NTSC)	01/01
CIRCUIT BOARD NO.	VEP81074A	COMPONENT PATH
KR1A47(1/1)		SCM168

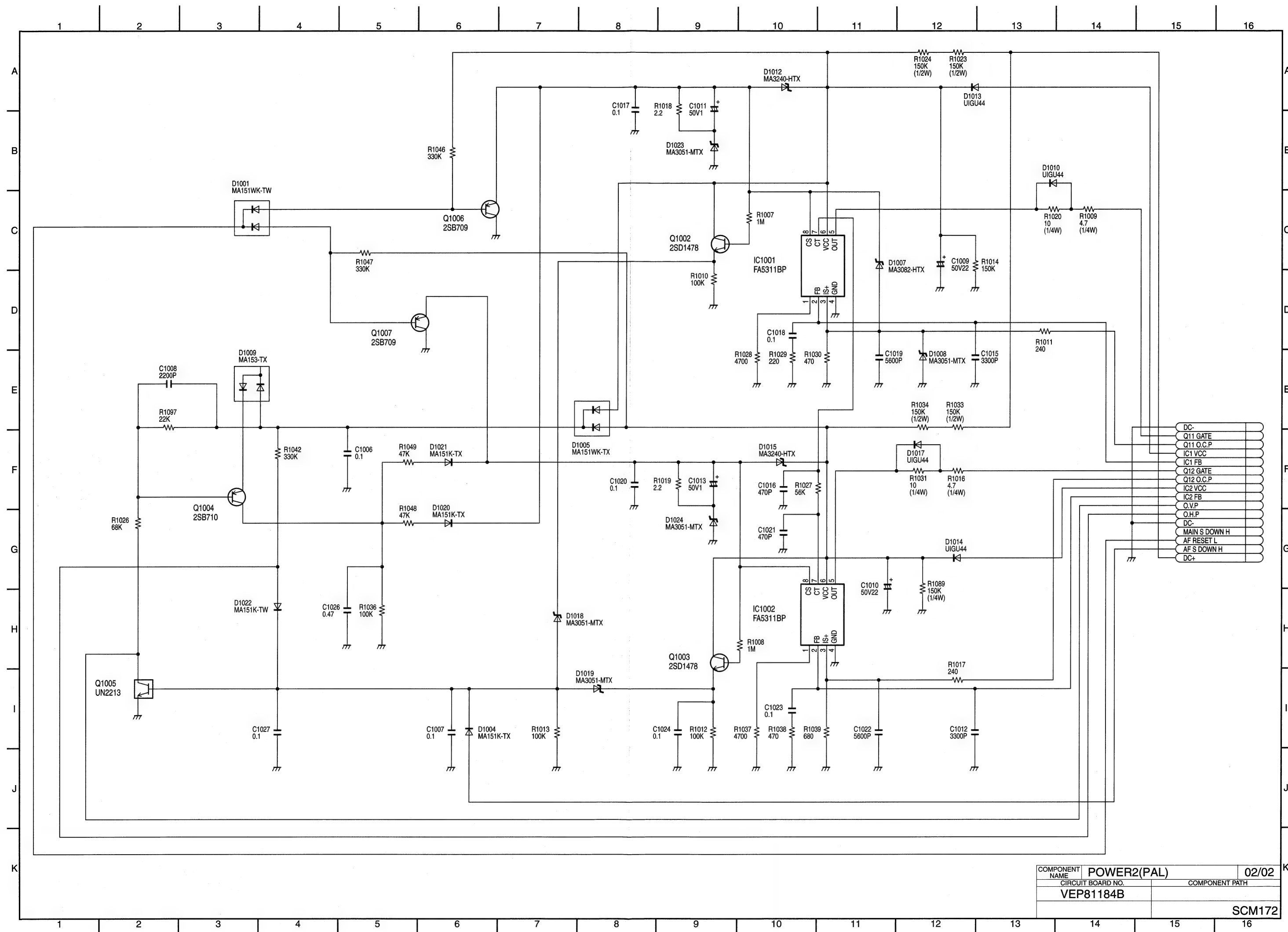
**⚠印の部品は安全上重要な部品です。
交換するときは、安全及び性能維持の
ため必ず指定の部品をご使用ください。**

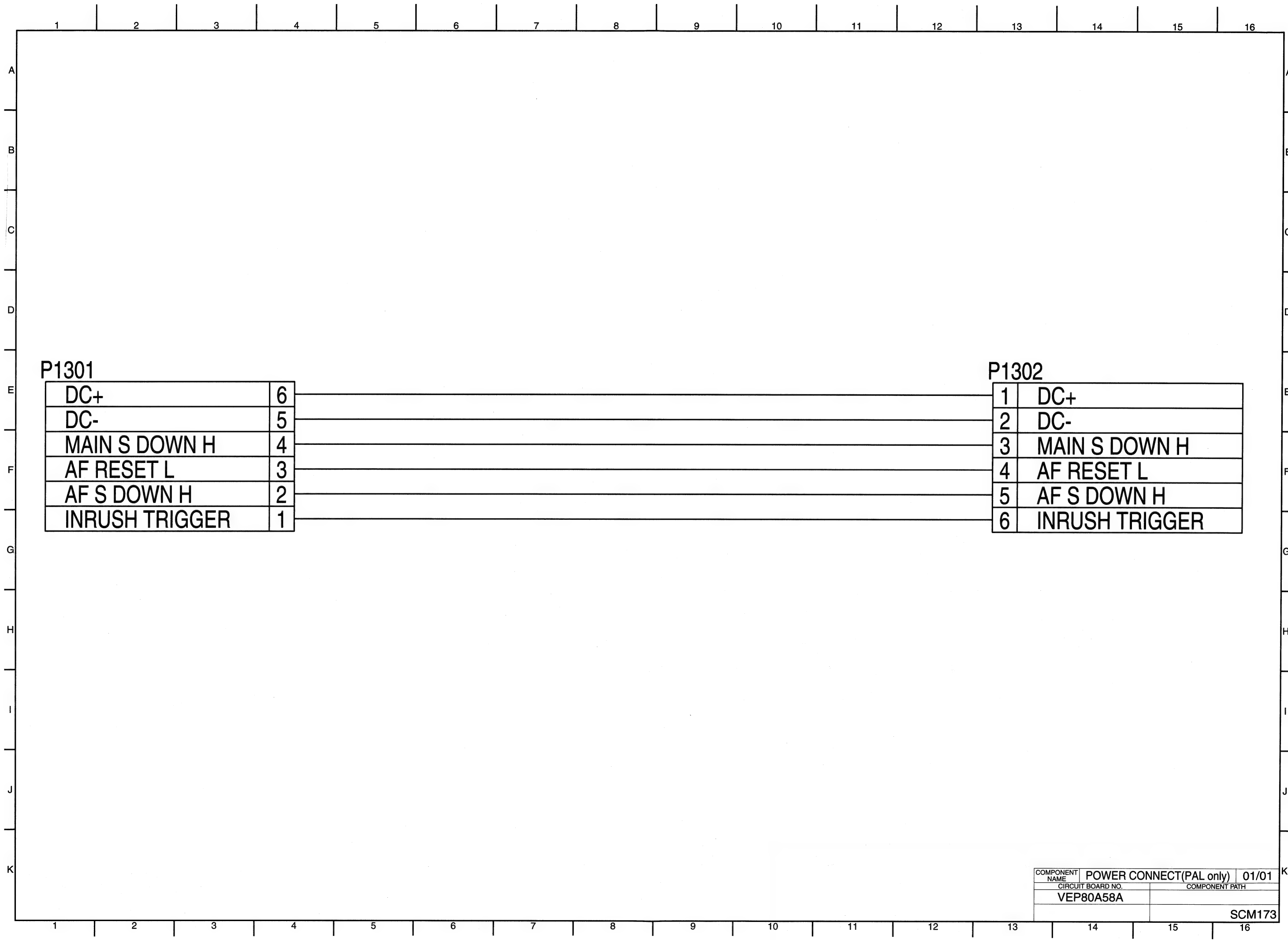
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COMPONENT NAME	POWER2(PAL)	01/02
CIRCUIT BOARD NO.	COMPONENT PATH	
VEP81184B		
	SCM171	

SCM171





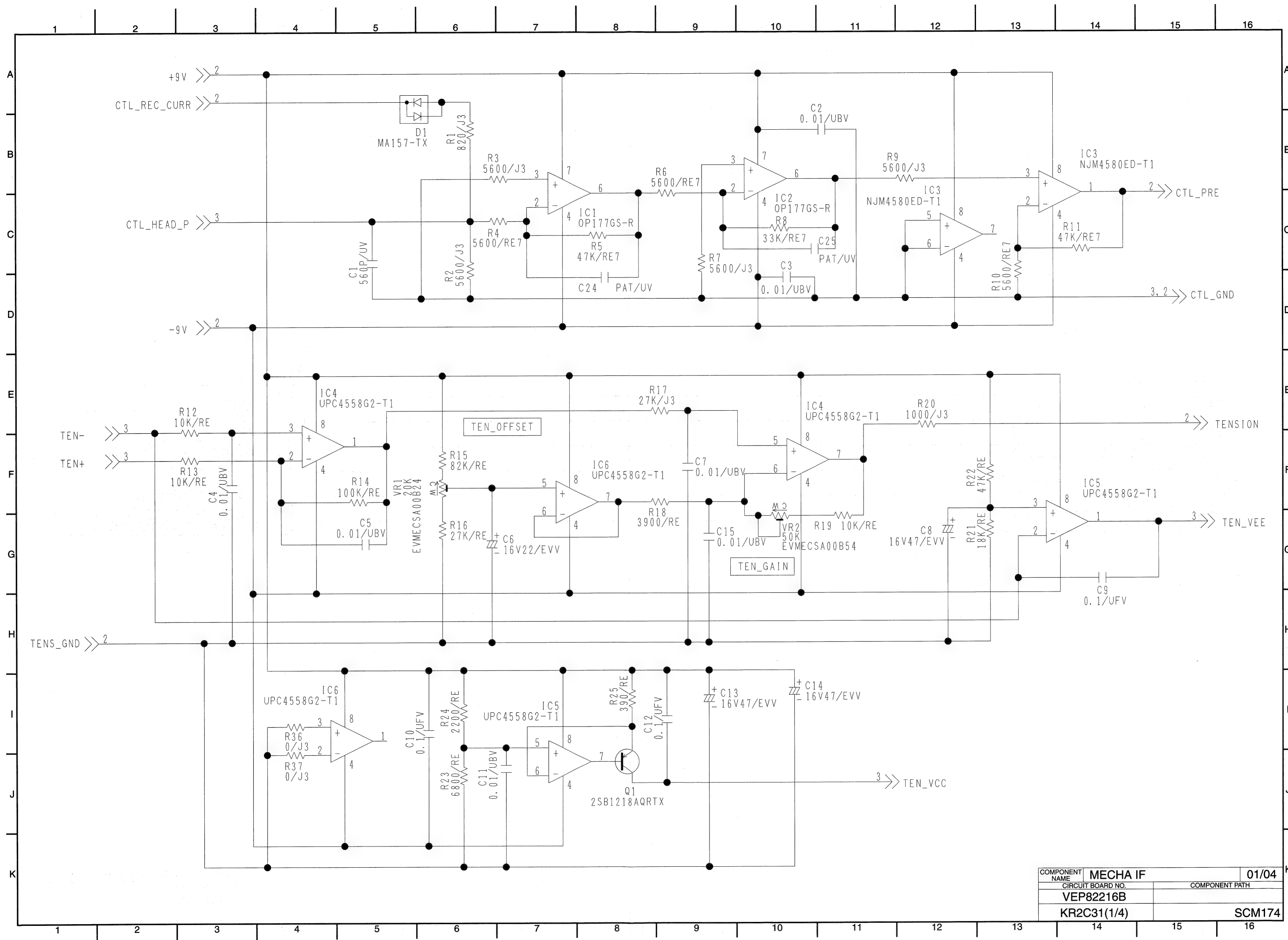
P1301

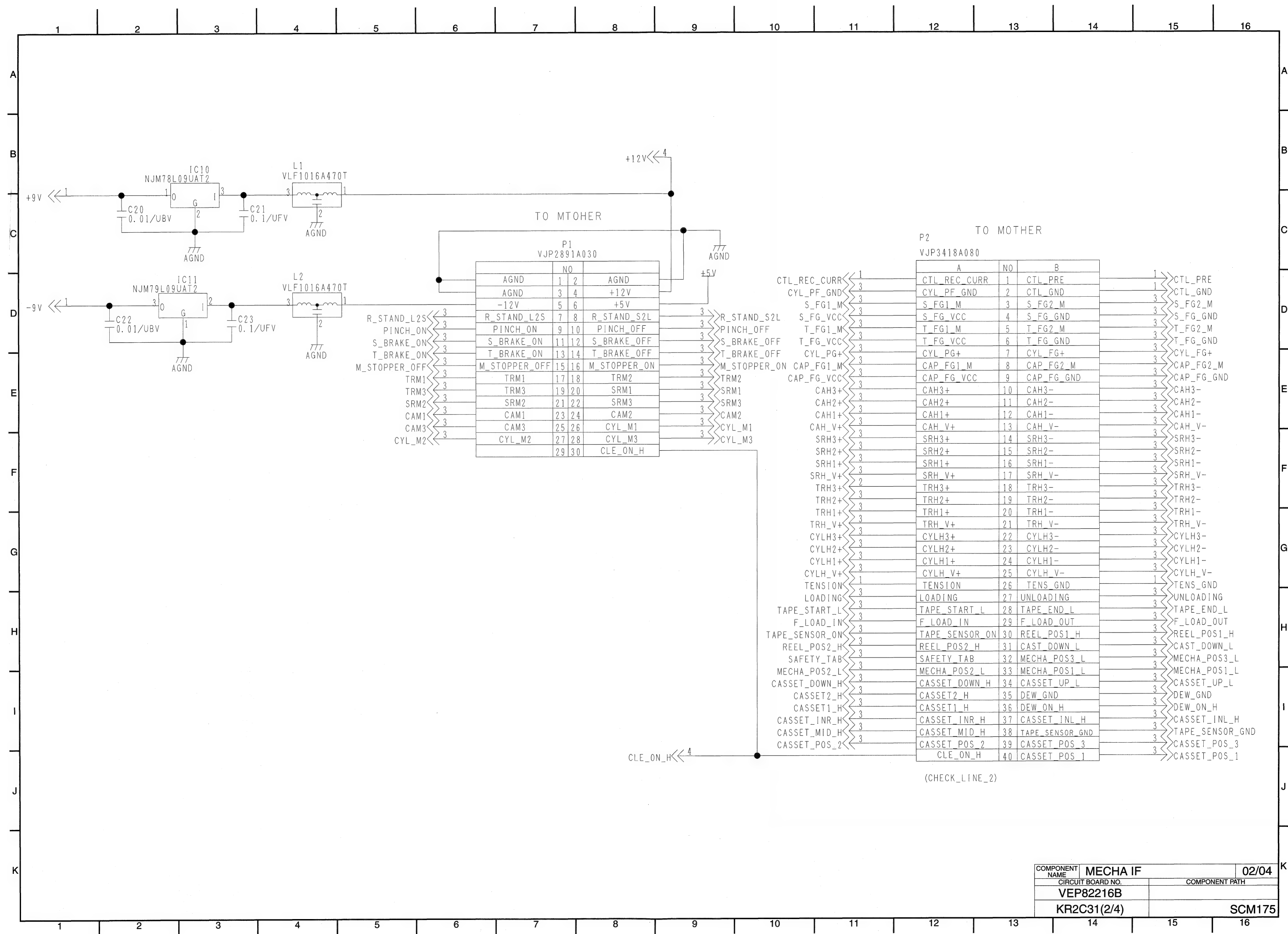
DC+	6
DC-	5
MAIN S DOWN H	4
AF RESET L	3
AF S DOWN H	2
INRUSH TRIGGER	1

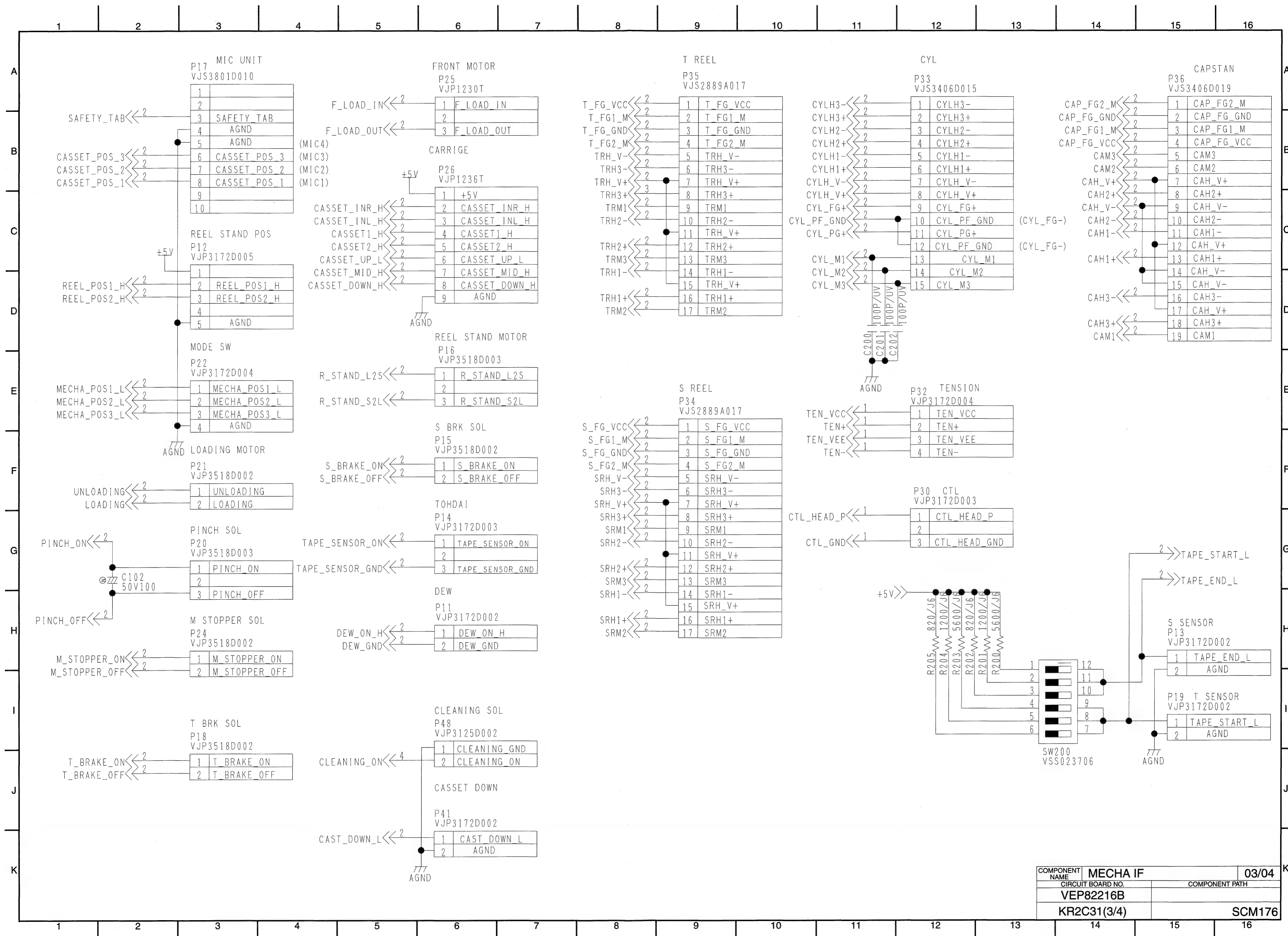
P1302

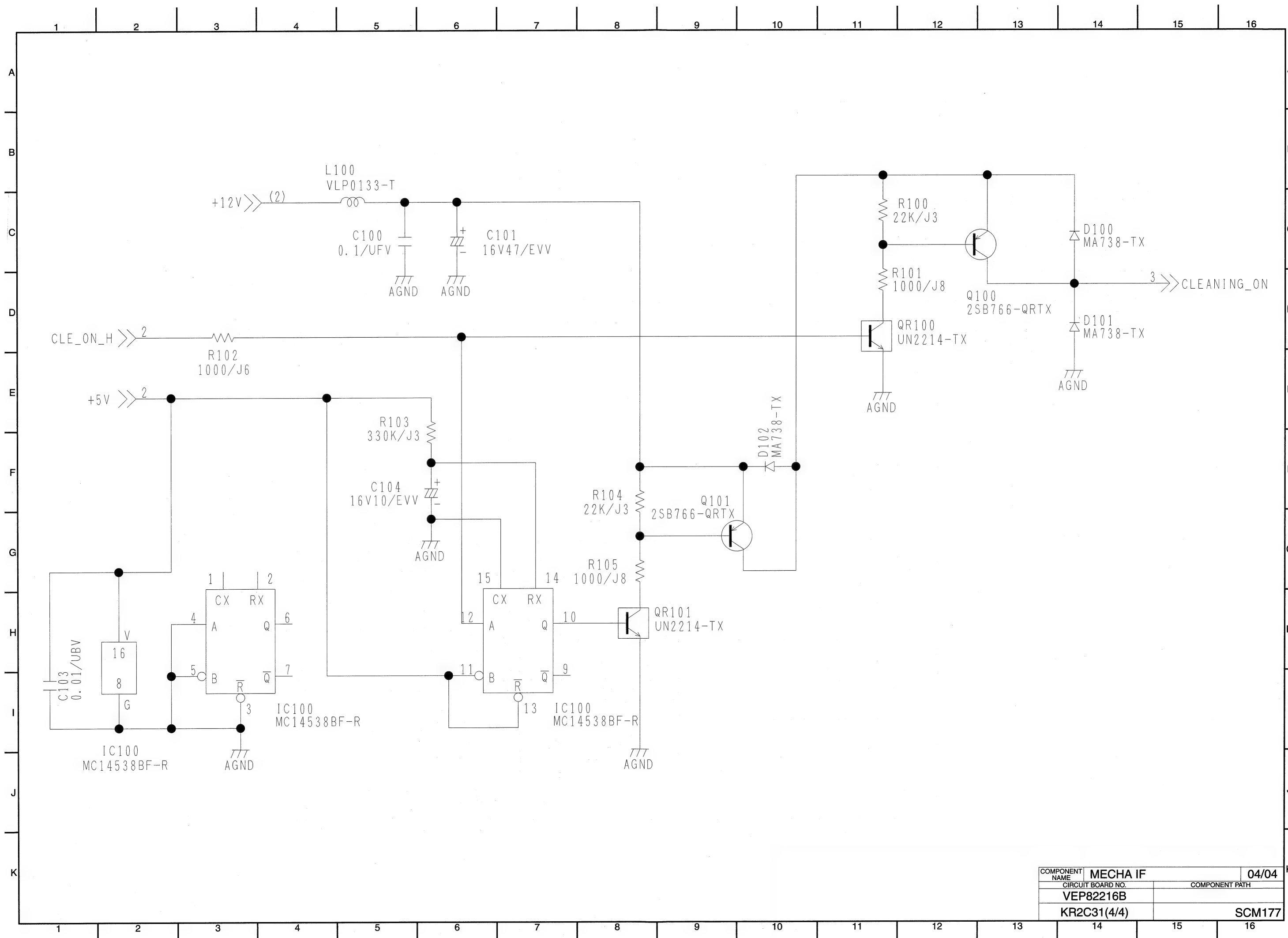
1	DC+
2	DC-
3	MAIN S DOWN H
4	AF RESET L
5	AF S DOWN H
6	INRUSH TRIGGER

COMPONENT NAME	POWER CONNECT(PAL only)	01/01
CIRCUIT BOARD NO.	COMPONENT PATH	
VEP80A58A		
	SCM173	

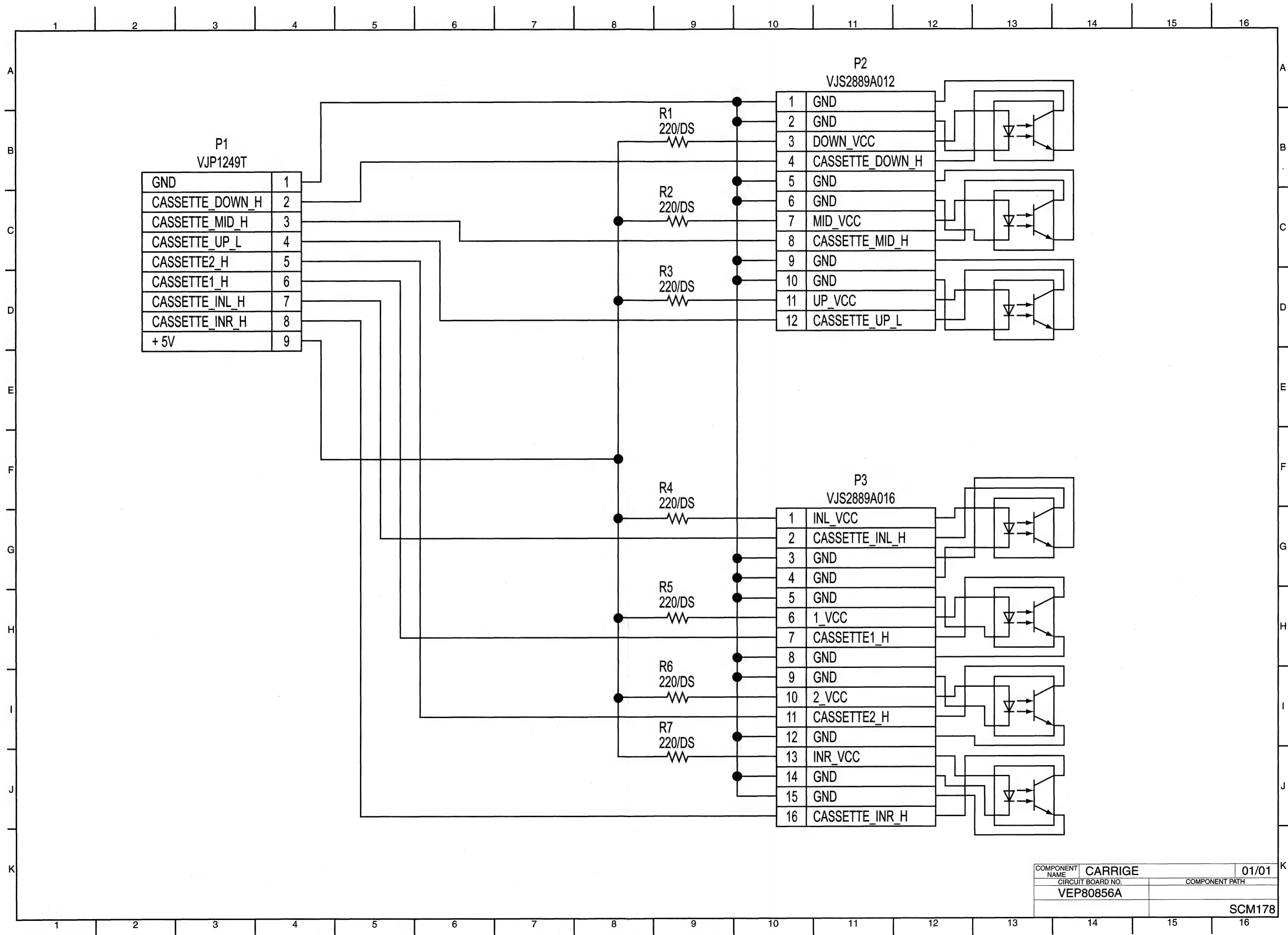




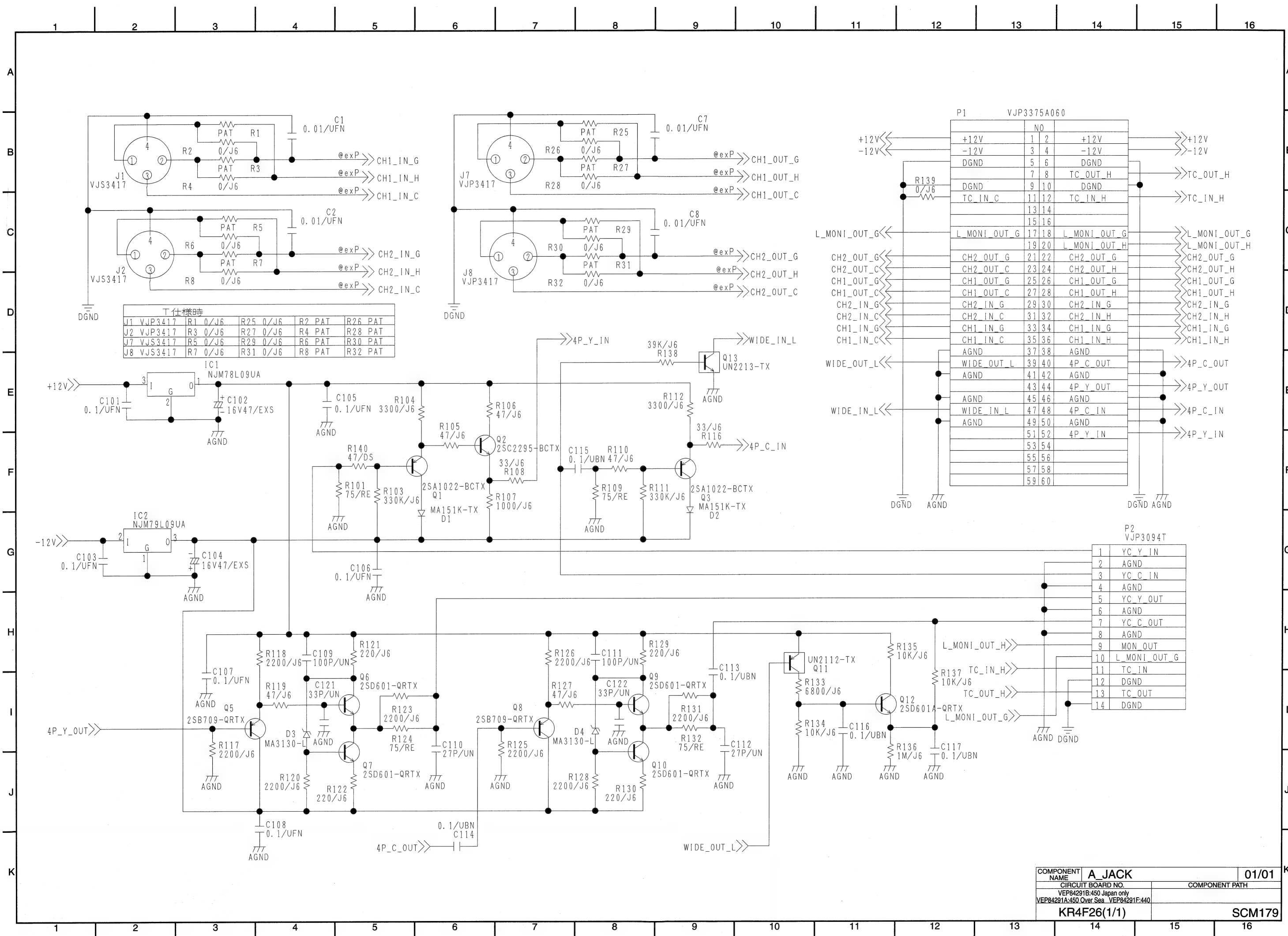


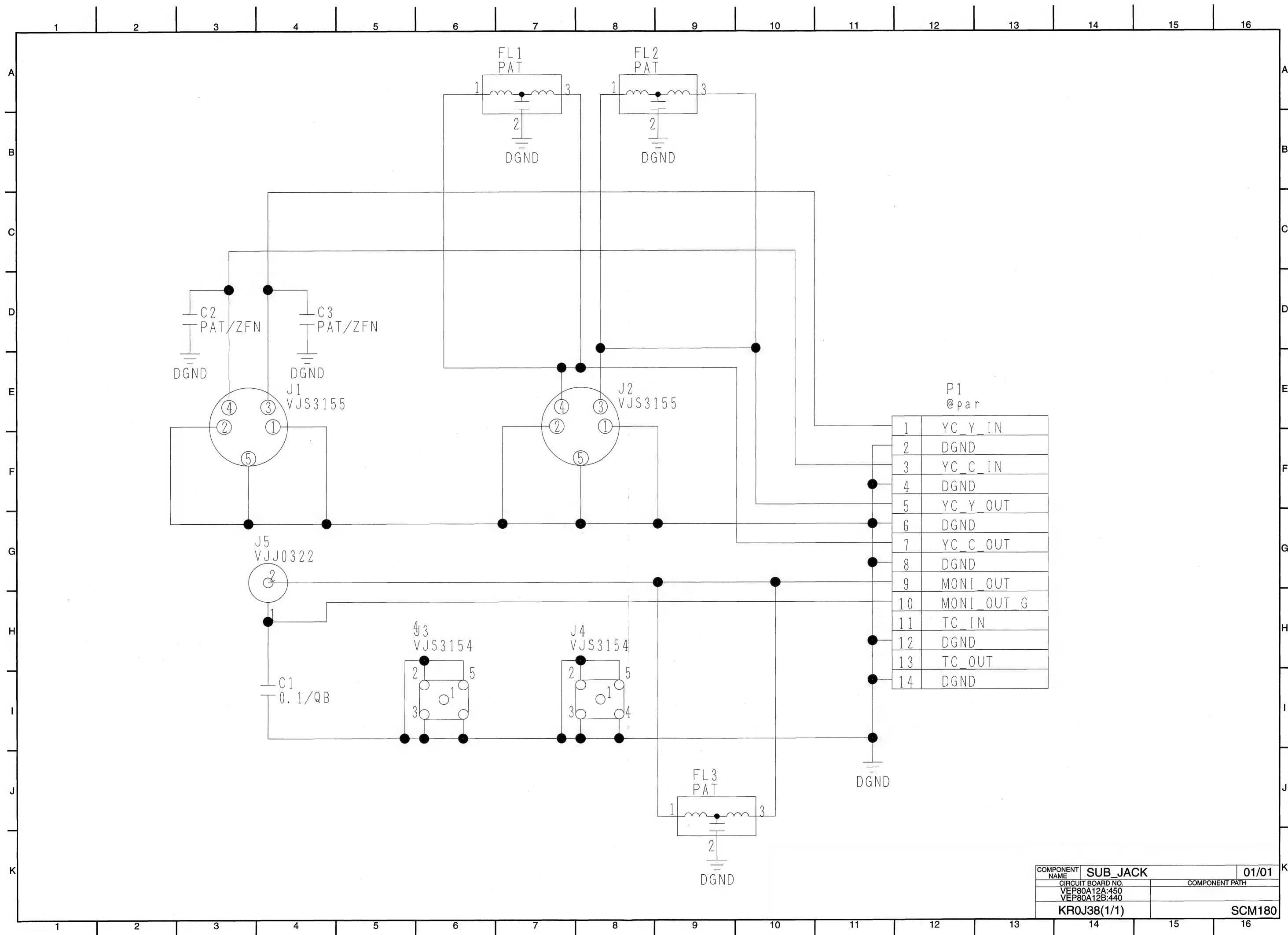


COMPONENT NAME	MECHA IF	04/04
CIRCUIT BOARD NO.	VEP82216B	COMPONENT PATH
KR2C31(4/4)		SCM177

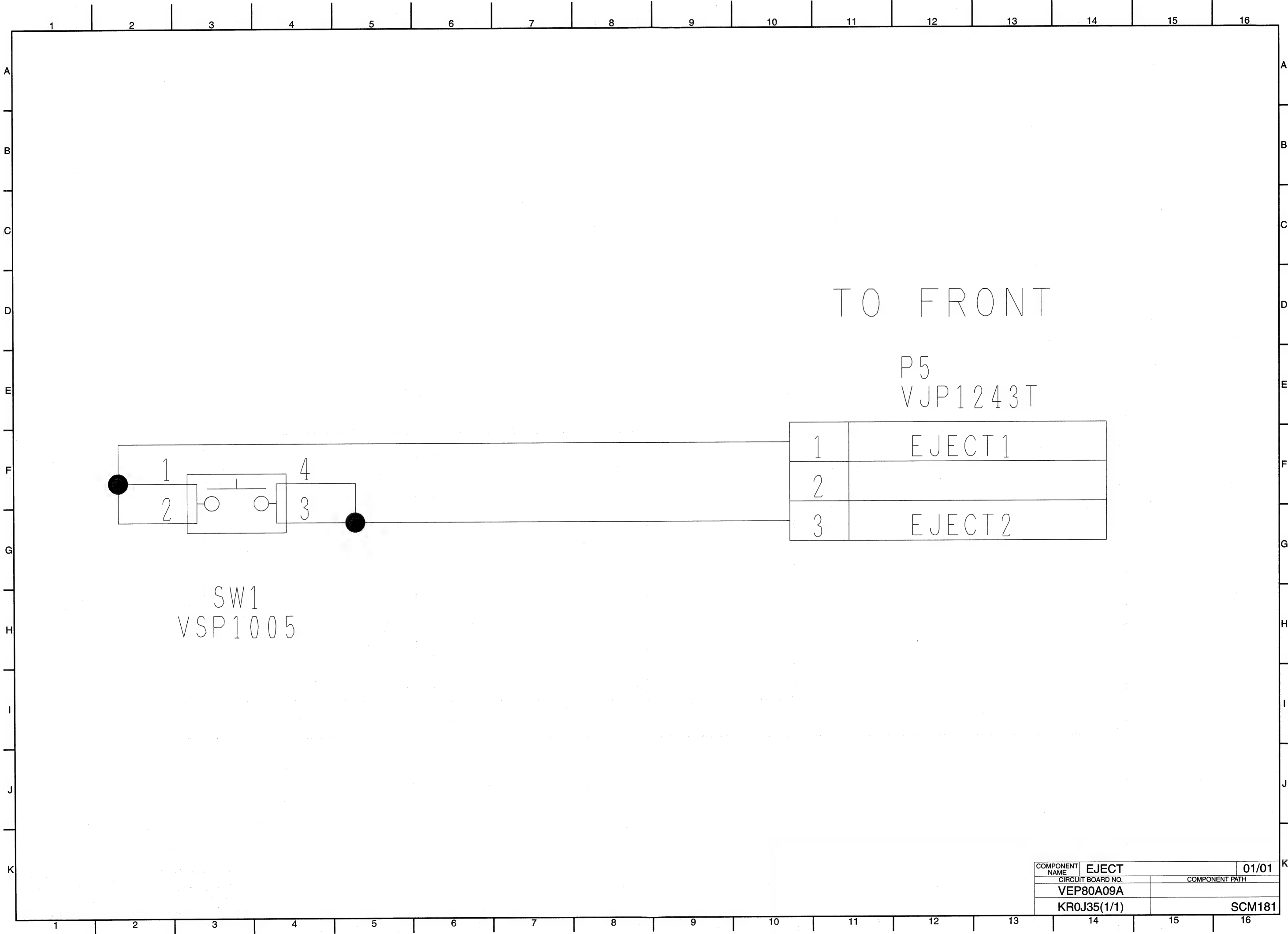


COMPONENT NAME	CARRIGE	01/01
CIRCUIT BOARD NO.	VEP80856A	COMPONENT PATH
		SCM178

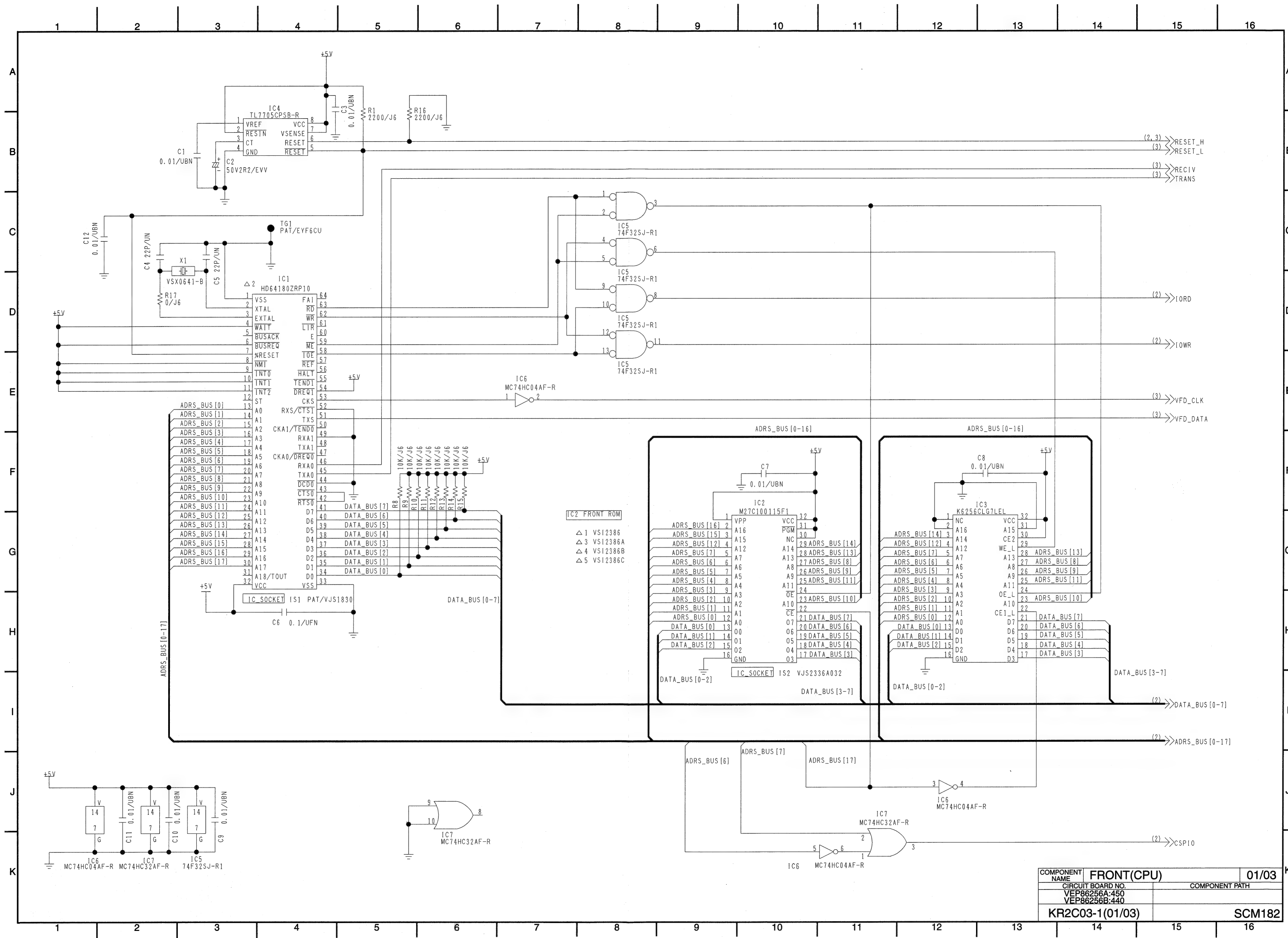


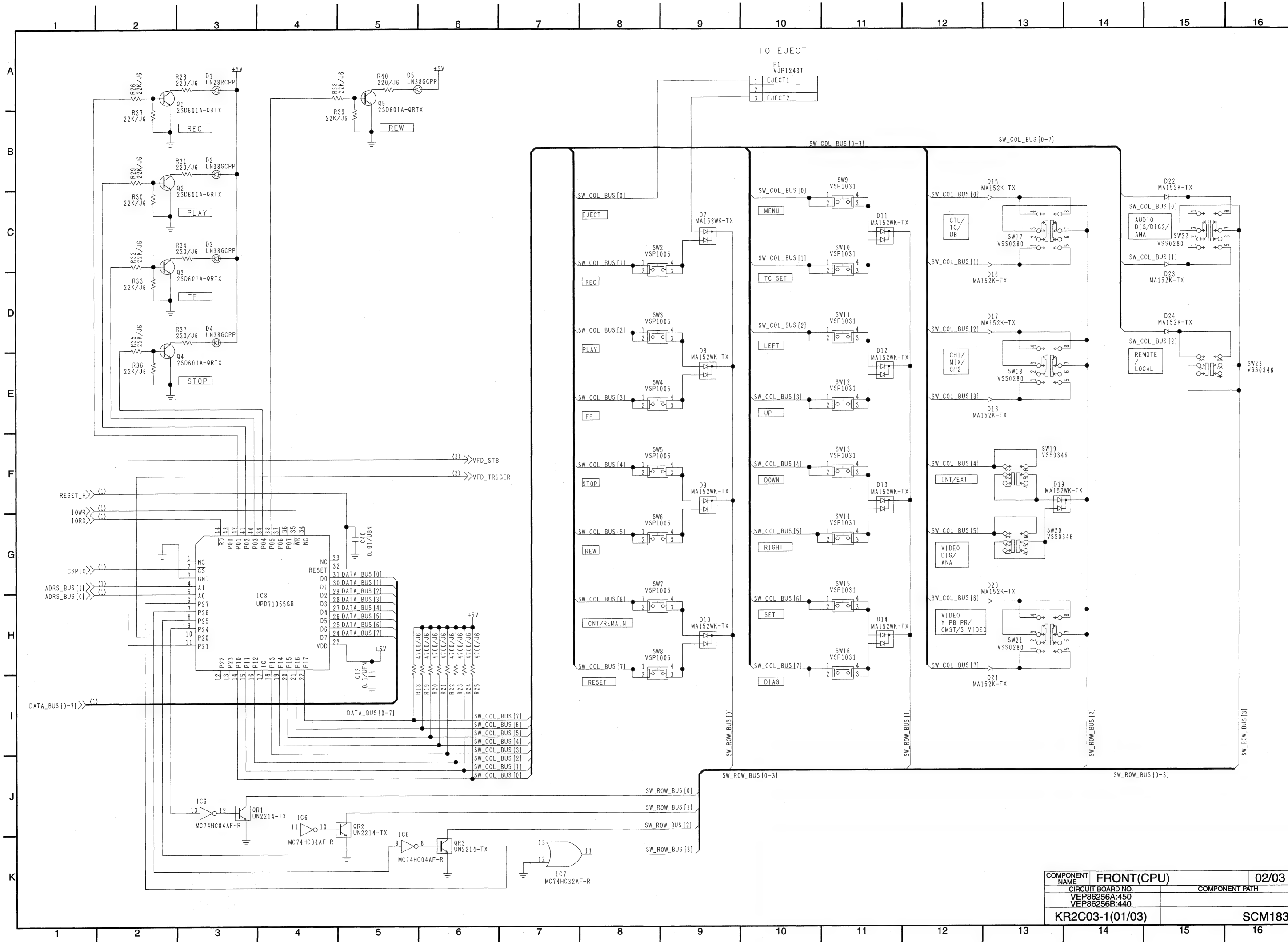


COMPONENT NAME	SUB_JACK	01/01
CIRCUIT BOARD NO.	VEP80A12A:450	COMPONENT PATH
	VEP80A12B:440	
KROJ38(1/1)		SCM180

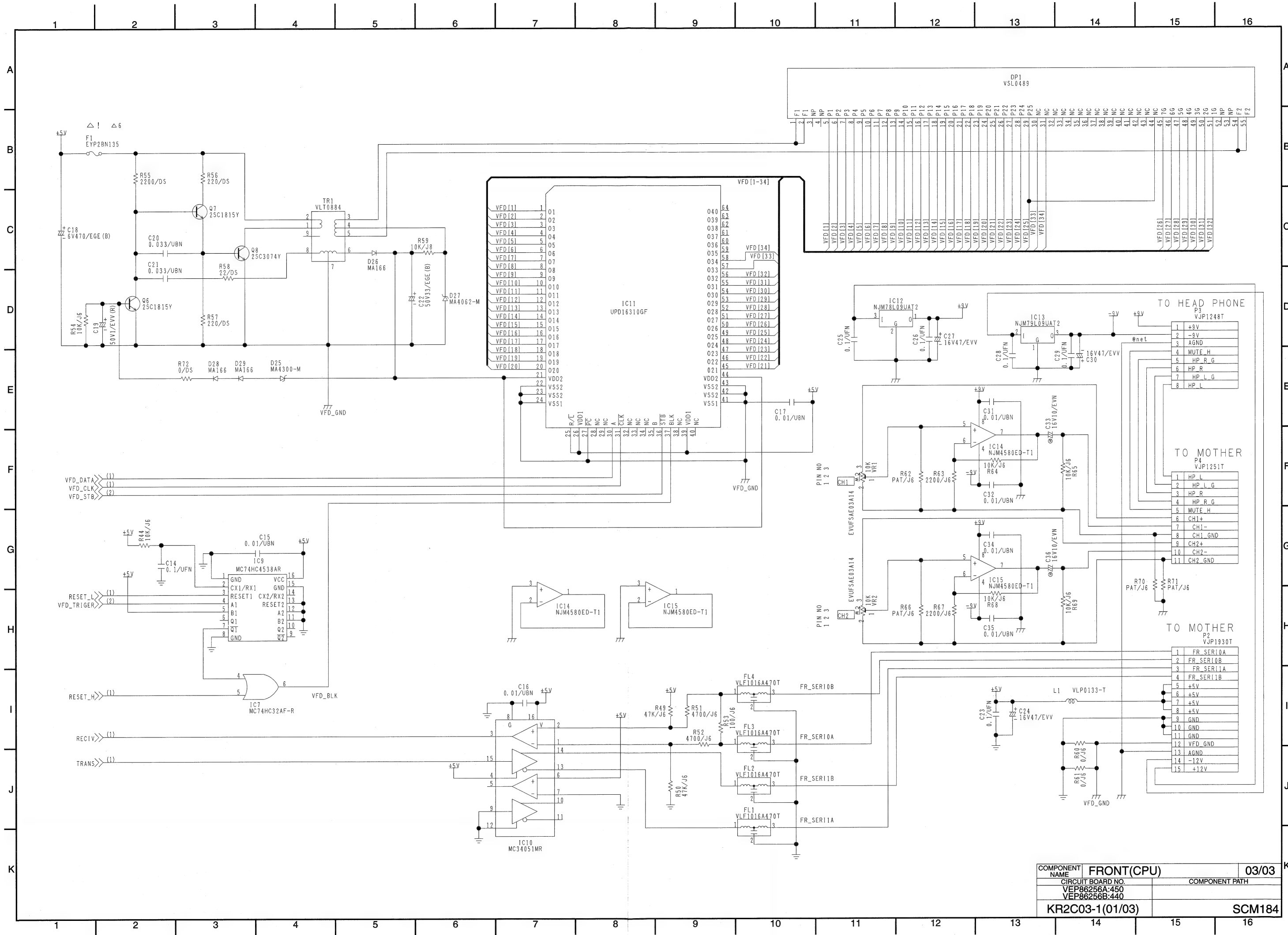


COMPONENT NAME	EJECT	01/01
CIRCUIT BOARD NO.	VEP80A09A	COMPONENT PATH
KR0J35(1/1)		SCM181





COMPONENT NAME	FRONT(CPU)	02/03
CIRCUIT BOARD NO.	VEP86256A:450	COMPONENT PATH
	VEP86256B:440	
KR2C03-1(01/03)		SCM183



COMPONENT NAME	FRONT(CPU)	03/03
CIRCUIT BOARD NO.	VEP86256A:450	COMPONENT PATH
	VEP86256B:440	
KR2C03-1(01/03)		SCM184

SECTION 8

CIRCUIT BOARD DIAGRAMS


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NOTE:

DO NOT USE THE PART NUMBER SHOWN ON THIS DRAWING FOR ORDERING. THE CORRECT PART NUMBER SHOWN IN THE PARTS LIST.
AND MAY BE SLIGHTLY DIFERENT OR AMENDED SINCE THIS DRAWING WAS PREPARED.

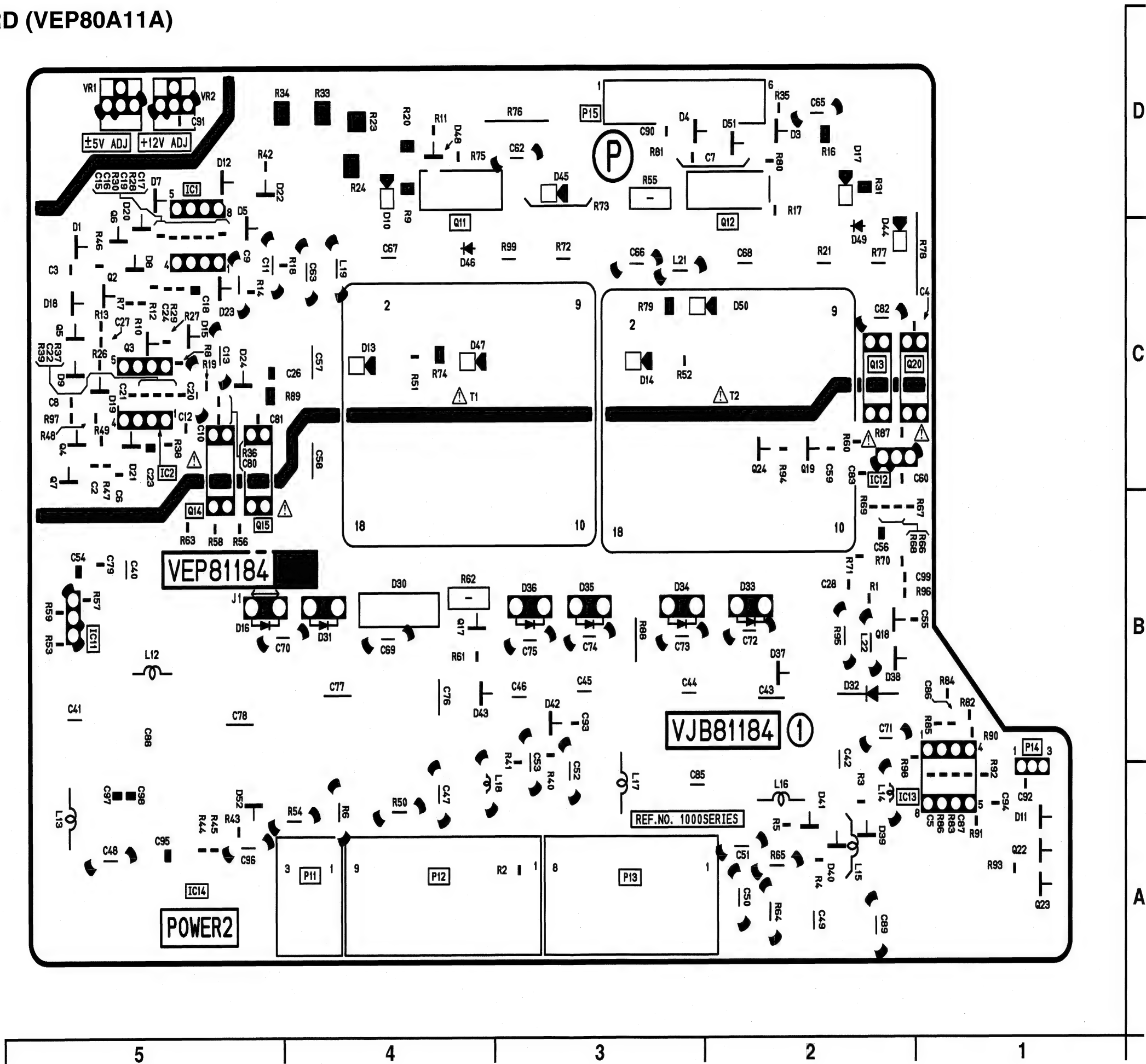
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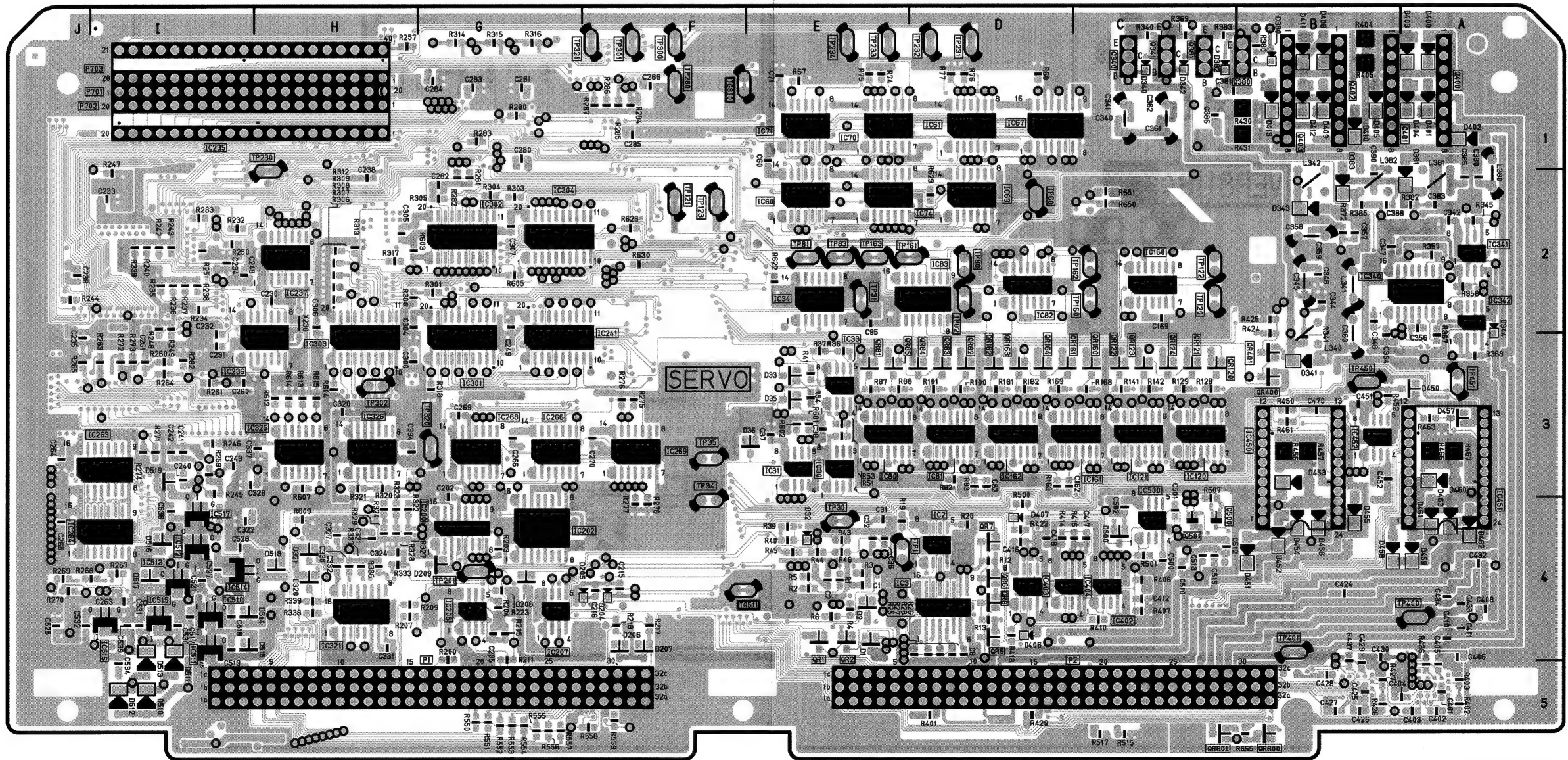
MOTHER P.C. BOARD (VEP80A11A)



F1: SERVO P.C. BOARD (VEP82105F: NTSC, VEP82105G: PAL)

REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC
IC120	C3	IC264	I4	IC33	E3	IC514	I4	IC83	D2	QR2	E4
IC121	C3	IC266	G3	IC34	E2	IC515	I4	Q500	C4	QR400	B3
IC160	C2	IC268	G3	IC340	A2	IC516	I4	Q501	C4	QR401	B3
IC161	C3	IC269	F3	IC341	A2	IC517	I4	QR1	E4	QR5	D4
IC162	D3	IC3	D4	IC342	A2	IC60	E2	QR120	C3	QR6	D4
IC2	D4	IC30	E3	IC402	C4	IC61	D1	QR121	C3	QR600	B5
IC200	G4	IC301	G3	IC403	D4	IC67	D1	QR122	C3	QR601	C5
IC202	G4	IC302	G2	IC404	D4	IC69	D2	QR123	C3	QR7	D4
IC205	G4	IC303	H3	IC452	B3	IC70	E1	QR124	C3	QR8	D4
IC207	G4	IC304	G2	IC500	C4	IC71	E1	QR160	C3	QR81	E3
IC236	H3	IC31	E3	IC510	I4	IC74	E2	QR161	D3	QR82	D3
IC237	H2	IC321	H4	IC511	I4	IC80	E3	QR162	D3	QR83	D3
IC241	G3	IC325	H3	IC512	I4	IC81	D3	QR163	D3	QR84	D3
IC263	I3	IC326	H3	IC513	I4	IC82	D2	QR164	D3	QR85	E3

(FOIL SIDE)

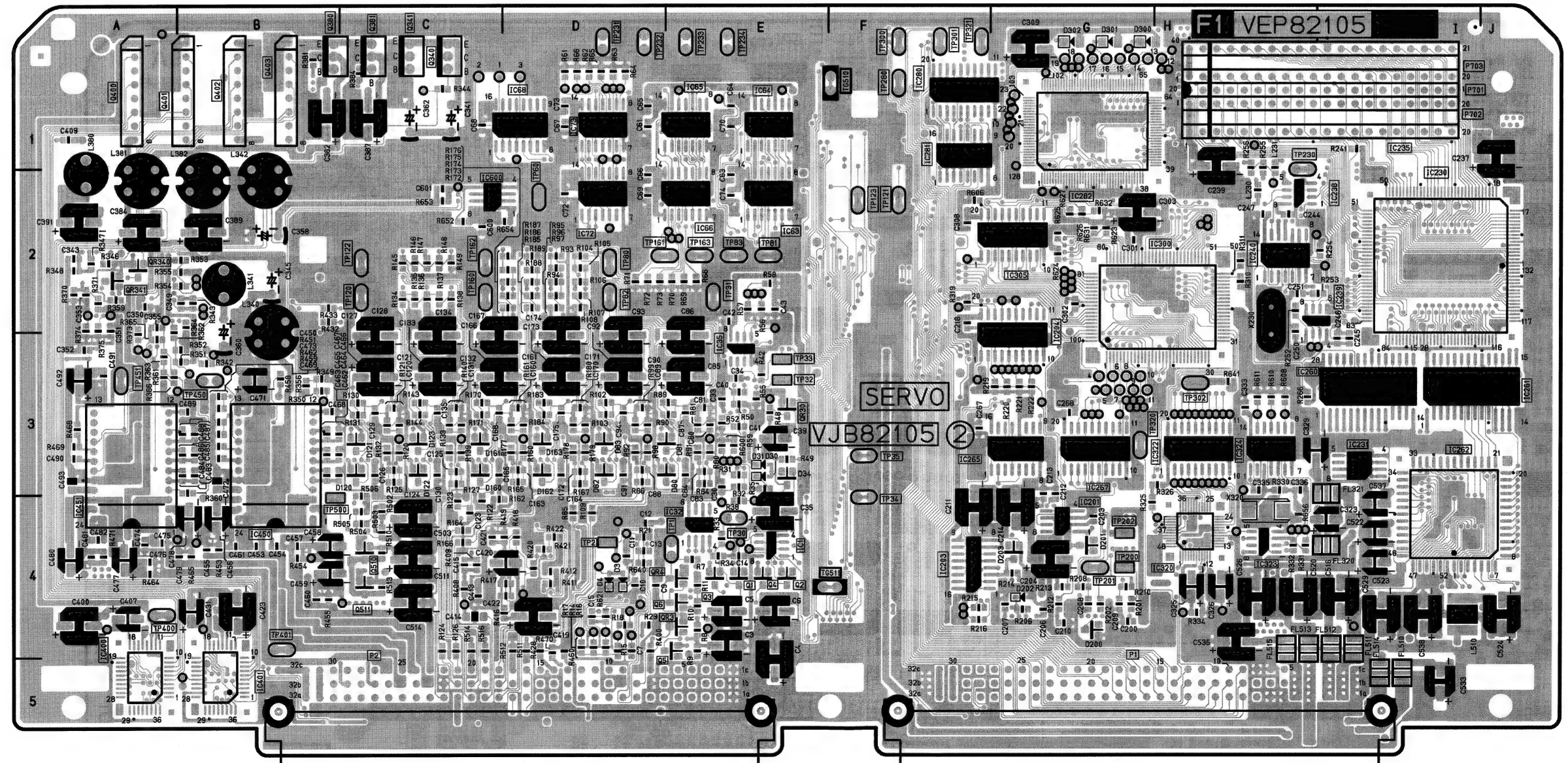
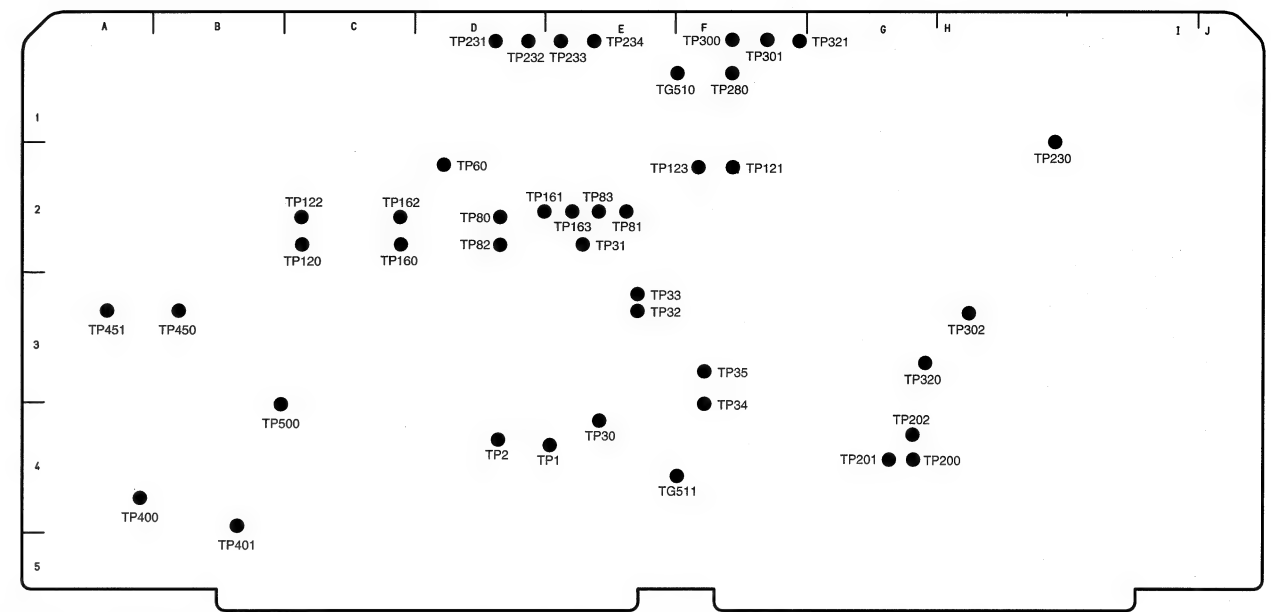


(FOIL SIDE)

F1: SERVO P.C. BOARD (VEP82105F: NTSC, VEP82105G: PAL)

REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC
IC1	E4	IC320	H4	P703	H1	QR4	E4	TP280	F1	TP83	E2
IC201	G4	IC322	H3	Q1	E4	TG510	F1	TP30	E4	X230	H2
IC203	F4	IC323	H4	Q2	E4	TG511	F4	TP300	F1	X320	H4
IC204	G3	IC324	H3	Q3	E4	TP1	E4	TP301	F1		
IC230	I2	IC35	E3	Q340	C1	TP120	C2	TP302	H3		
IC231	I3	IC400	A5	Q341	C1	TP121	F2	TP31	E2		
IC235	H1	IC401	B5	Q380	B1	TP122	C2	TP32	E3		
IC238	H2	IC450	B4	Q381	C1	TP123	F2	TP320	G3		
IC239	H2	IC451	A4	Q4	E4	TP160	C2	TP321	F1		
IC240	H2	IC600	C2	Q400	A1	TP161	D2	TP33	E3		
IC260	I3	IC63	E2	Q401	B1	TP162	C2	TP34	F4		
IC261	I3	IC64	E1	Q402	B1	TP163	E2	TP35	F3		
IC262	I4	IC65	E1	Q403	B1	TP2	D4	TP400	A4		
IC265	G3	IC66	E2	Q5	E4	TP200	G4	TP401	B4		
IC267	G3	IC68	D1	Q510	C4	TP201	G4	TP450	B3		
IC280	F1	IC72	D2	Q511	C4	TP202	G4	TP451	A3		
IC281	F1	IC73	D1	Q6	E4	TP230	H2	TP500	B4		
IC282	G1	P1	G5	QR3	E4	TP231	D1	TP60	D2		
IC300	H2	P2	D5	QR30	E3	TP232	D1	TP80	D2		
IC305	G2	P701	I1	QR340	A2	TP233	E1	TP81	E2		
IC32	E4	P702	H1	QR341	A2	TP234	E1	TP82	D2		

(COMPONENT SIDE)

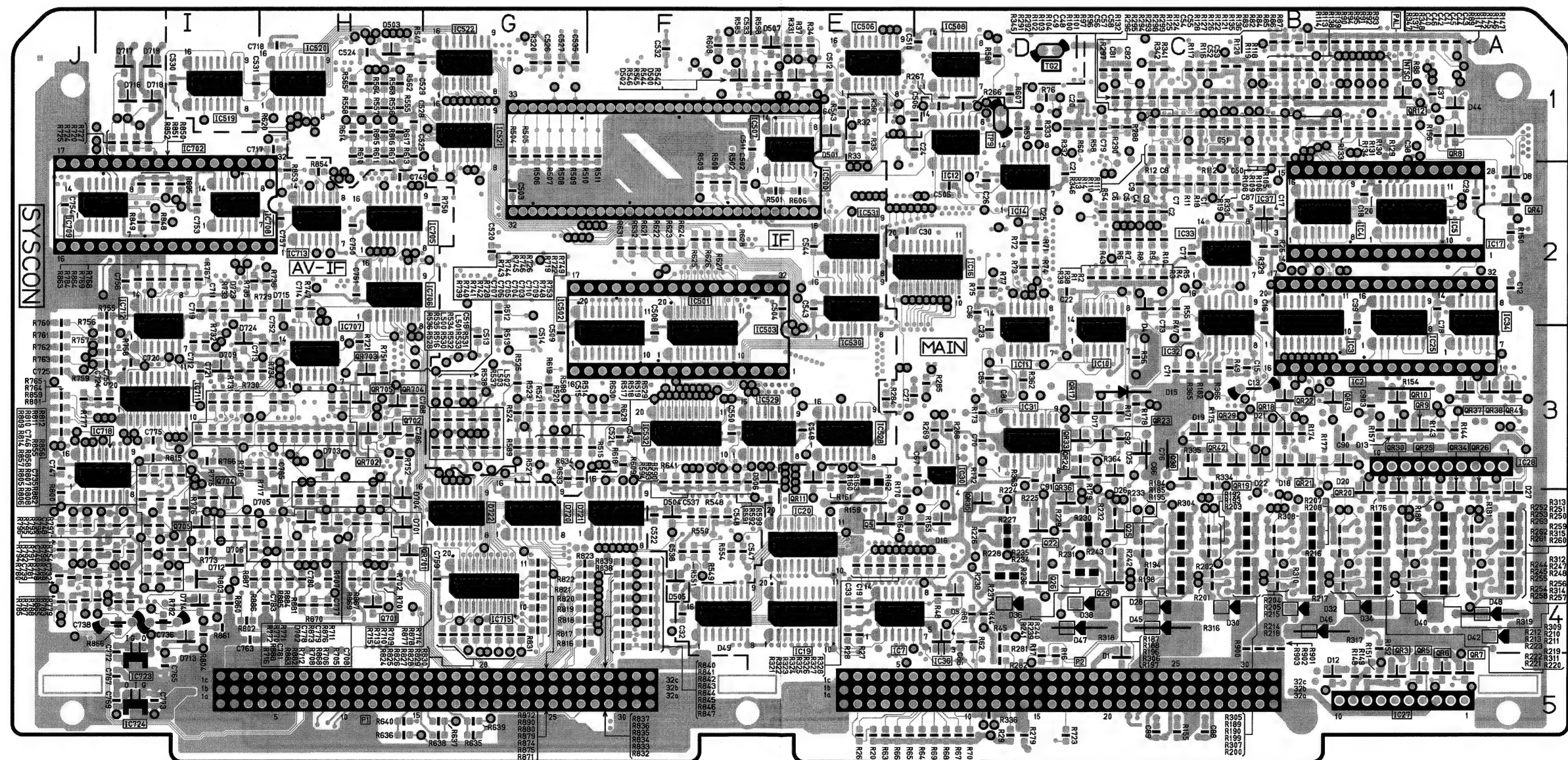


(COMPONENT SIDE)

F2: SYSCON P.C. BOARD (VEP86146M: 450 (NTSC), VEP86146P: 440 (NTSC), VEP86146N: 450 (PAL), VEP86146Q: 440 (PAL))

REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC
IC10	C2	IC36	D4	IC529	E3	IC718	I3	QR11	E3	QR30	B4	QR702	H3
IC11	D2	IC37	B2	IC530	E2	IC723	I5	QR12	B1	QR33	C3	QR703	H3
IC12	D1	IC4	B2	IC531	E2	IC724	I5	QR17	C3	QR34	A4	QR704	H3
IC14	D2	IC5	A2	IC532	F3	Q22	D4	QR18	B3	QR35	D4	QR705	H3
IC16	D2	IC501	F2	IC7	E4	Q25	C4	QR19	C3	QR36	D4	QR8	A1
IC19	E4	IC502	F2	IC705	H2	Q26	D4	QR20	B4	QR37	A3	QR9	A3
IC20	E4	IC506	E1	IC706	H2	Q29	C4	QR21	B3	QR38	A3		
IC25	B2	IC507	E1	IC707	H3	Q38	C3	QR22	B3	QR4	A2		
IC3	B2	IC508	D1	IC708	I2	Q5	E4	QR23	C3	QR41	A3		
IC30	D3	IC519	I1	IC709	I2	Q701	H4	QR24	C3	QR42	C3		
IC31	D3	IC520	H1	IC711	I3	Q702	H3	QR25	A4	QR5	A5		
IC32	C2	IC521	G1	IC712	I2	Q704	I4	QR26	A4	QR6	A5		
IC33	C2	IC522	G1	IC713	H2	Q705	I4	QR29	C3	QR7	A5		
IC34	A2	IC528	E3	IC715	G4	QR10	B3	QR3	B5	QR701	H4		

(FOIL SIDE)

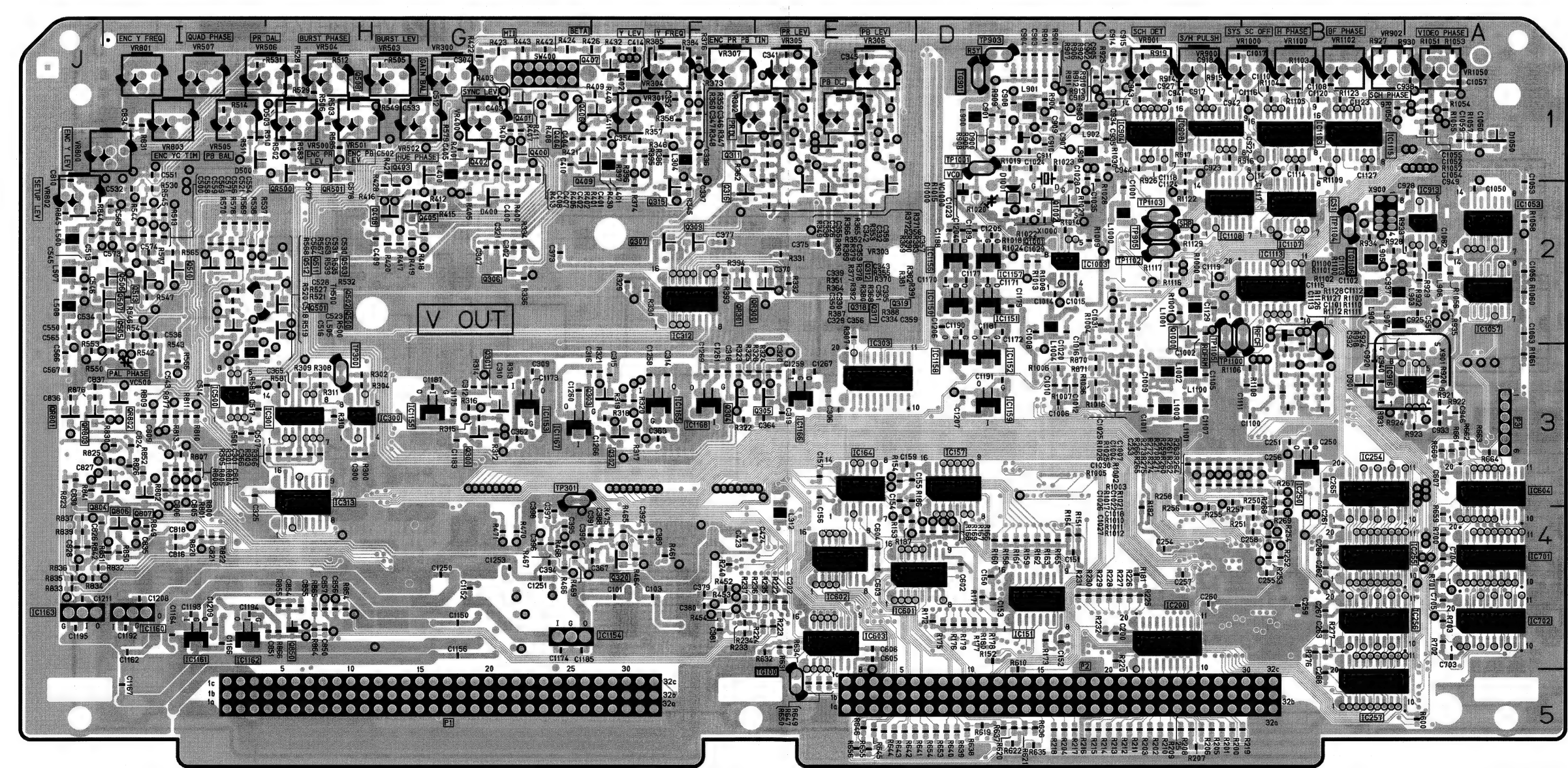


(FOIL SIDE)

F4: V OUT P.C. BOARD (VEP83352A: Japan only, VEP83352C: NTSC, VEP83352B: PAL)

REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC
IC1003	D2	IC1157	D2	IC254	B3	IC701	A4	Q305	E3	Q402	G1	Q507	I2	QR801	J3
IC1053	A2	IC1158	D3	IC255	B4	IC702	A4	Q306	G2	Q403	H1	Q508	H1	QR802	I3
IC1057	A2	IC1159	D3	IC256	B4	IC904	C1	Q307	F2	Q404	G1	Q510	I2	QR803	J3
IC1103	B1	IC1161	I4	IC257	B5	IC908	C1	Q309	F2	Q405	H2	Q511	I2		
IC1107	B2	IC1162	I4	IC300	H3	IC913	A2	Q311	F1	Q406	F1	Q512	I2		
IC1108	C2	IC1165	F3	IC301	H3	IC916	A3	Q312	E1	Q407	F1	Q513	I2		
IC1113	B2	IC1166	E3	IC303	E3	Q1000	C2	Q315	F2	Q408	H2	Q804	I3		
IC1115	B1	IC1167	G3	IC312	F2	Q1001	D2	Q316	F2	Q409	G1	Q806	I4		
IC1150	D2	IC1168	F3	IC313	H3	Q1002	D2	Q317	E2	Q500	H2	Q807	I3		
IC1151	D2	IC151	D4	IC500	I3	Q300	G3	Q318	E2	Q501	I2	Q850	H4		
IC1152	D3	IC157	D3	IC601	D4	Q301	G3	Q319	E2	Q502	H2	QR300	E2		
IC1153	G3	IC164	E3	IC602	E4	Q302	F3	Q320	F4	Q503	H2	QR301	F2		
IC1155	G3	IC200	C4	IC603	E4	Q303	F3	Q400	G1	Q505	I2	QR500	H1		
IC1156	D2	IC250	B3	IC604	A3	Q304	F3	Q401	G1	Q506	I2	QR501	H1		

(FOIL SIDE)

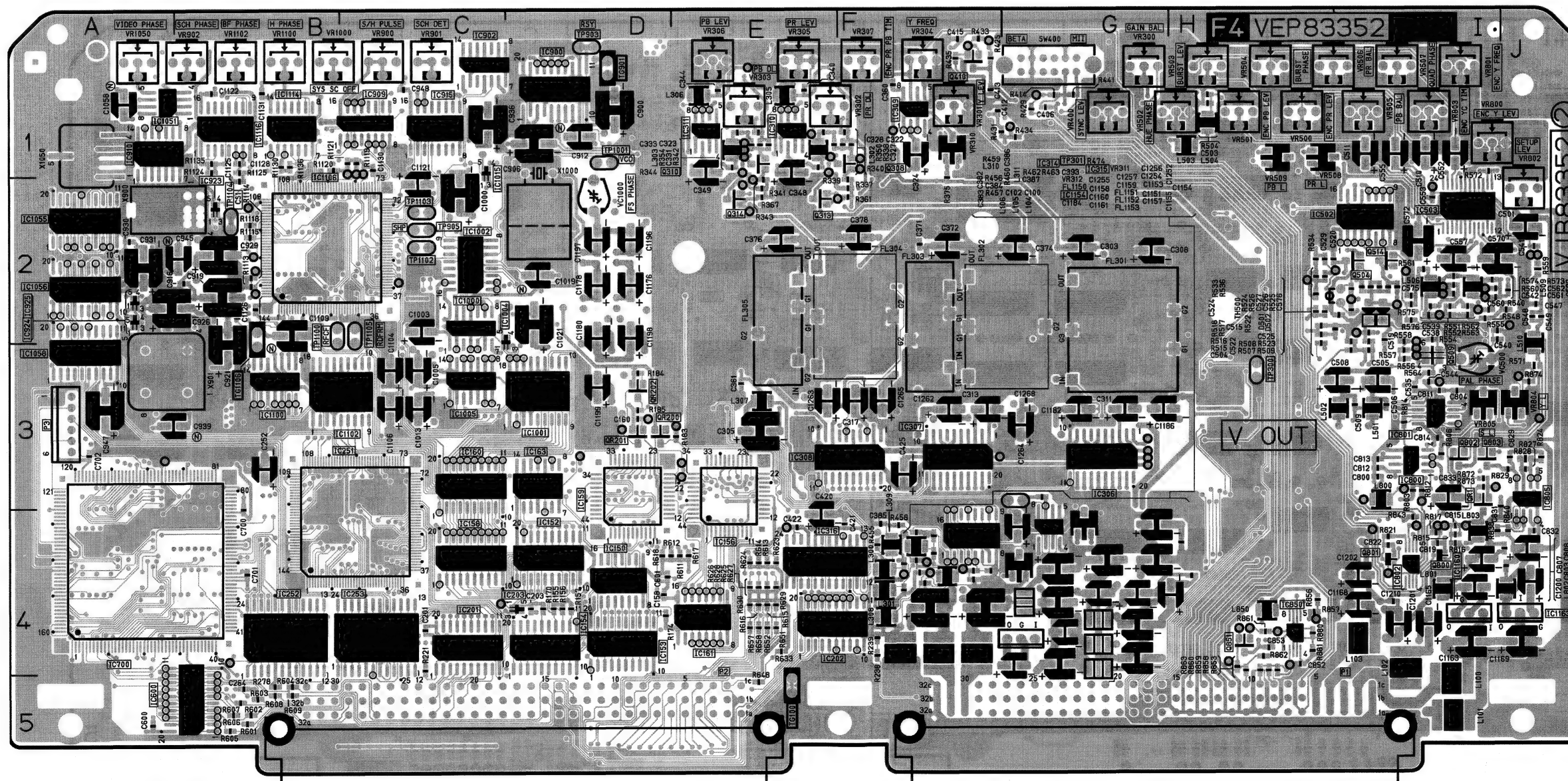
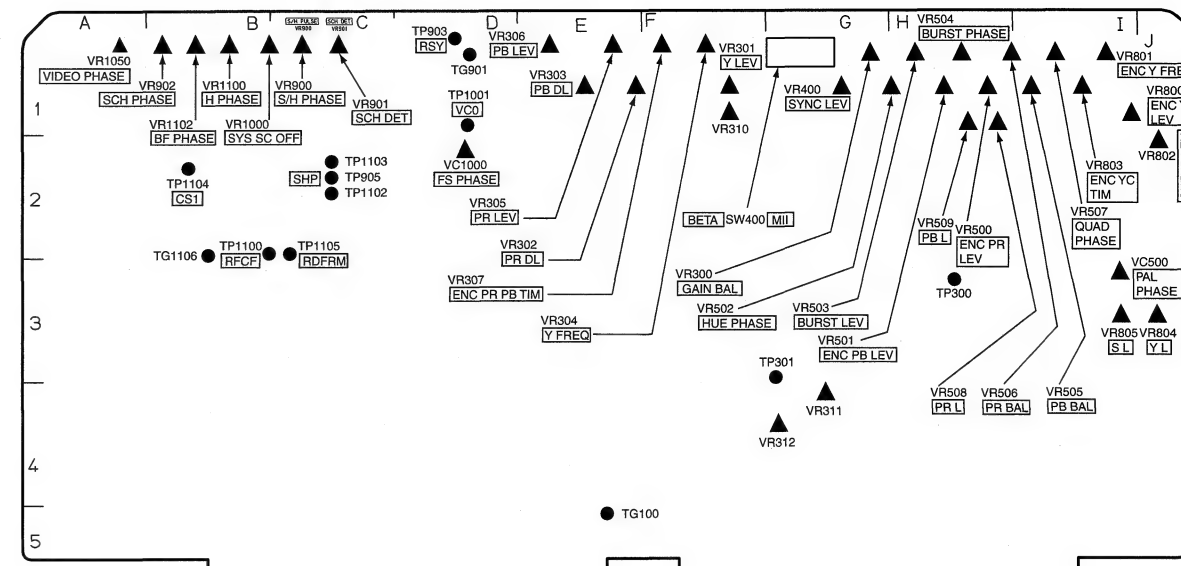


(FOIL SIDE)

F4: V OUT P.C. BOARD (VEP83352A: Japan only, VEP83352C: NTSC, VEP83352B: PAL)

REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC
IC1000	C2	IC153	D4	IC314	F4	P1	G5	SW400	G1	VR300	G1	VR508	H1
IC1001	D3	IC154	D4	IC315	G4	P2	D5	TG100	E5	VR301	F1	VR509	H1
IC1002	C2	IC156	E3	IC316	E4	P3	A3	TG1106	B3	VR302	E1	VR800	I1
IC1004	C3	IC158	C4	IC502	I2	Q308	F1	TG901	D1	VR303	E1	VR801	I1
IC1005	C3	IC159	D3	IC503	I2	Q310	E1	TP1001	D1	VR304	F1	VR802	J2
IC1015	C2	IC160	C3	IC600	B5	Q313	E2	TP1100	B2	VR305	E1	VR803	I1
IC1051	A1	IC161	E4	IC700	A4	Q314	E2	TP1102	C2	VR306	E1	VR804	J3
IC1055	A2	IC163	D3	IC800	I3	Q410	F1	TP1103	C2	VR307	F1	VR805	I3
IC1056	A2	IC201	C4	IC801	I3	Q504	I2	TP1104	B2	VR310	F1	VR900	C1
IC1058	A3	IC202	E4	IC802	I4	Q509	I3	TP1105	C2	VR311	G4	VR901	C1
IC1100	B3	IC203	D4	IC805	J3	Q514	I2	TP300	H3	VR312	G4	VR902	B1
IC1102	B3	IC251	C4	IC850	H4	Q800	I4	TP301	G3	VR400	G1	X1000	D2
IC1106	B2	IC252	B4	IC900	D1	Q801	I4	TP903	D1	VR500	H1	X1050	A1
IC1114	B1	IC253	C4	IC902	C1	Q802	I3	TP905	C2	VR501	H1	X900	A2
IC1116	B1	IC306	G3	IC909	C1	Q803	I3	VC1000	D2	VR502	H1	X901	B3
IC1154	G4	IC307	F3	IC910	A1	Q851	H4	VC500	I3	VR503	H1		
IC1160	I4	IC308	F3	IC915	C1	QR1	I4	VR1000	B1	VR504	H1		
IC1163	J4	IC309	F1	IC923	B2	QR200	D3	VR1050	A1	VR505	I1		
IC150	D4	IC310	E1	IC924	A2	QR201	D3	VR1100	B1	VR506	I1		
IC152	D4	IC311	E1	IC925	A2	QR202	D3	VR1102	B1	VR507	I1		

(COMPONENT SIDE)

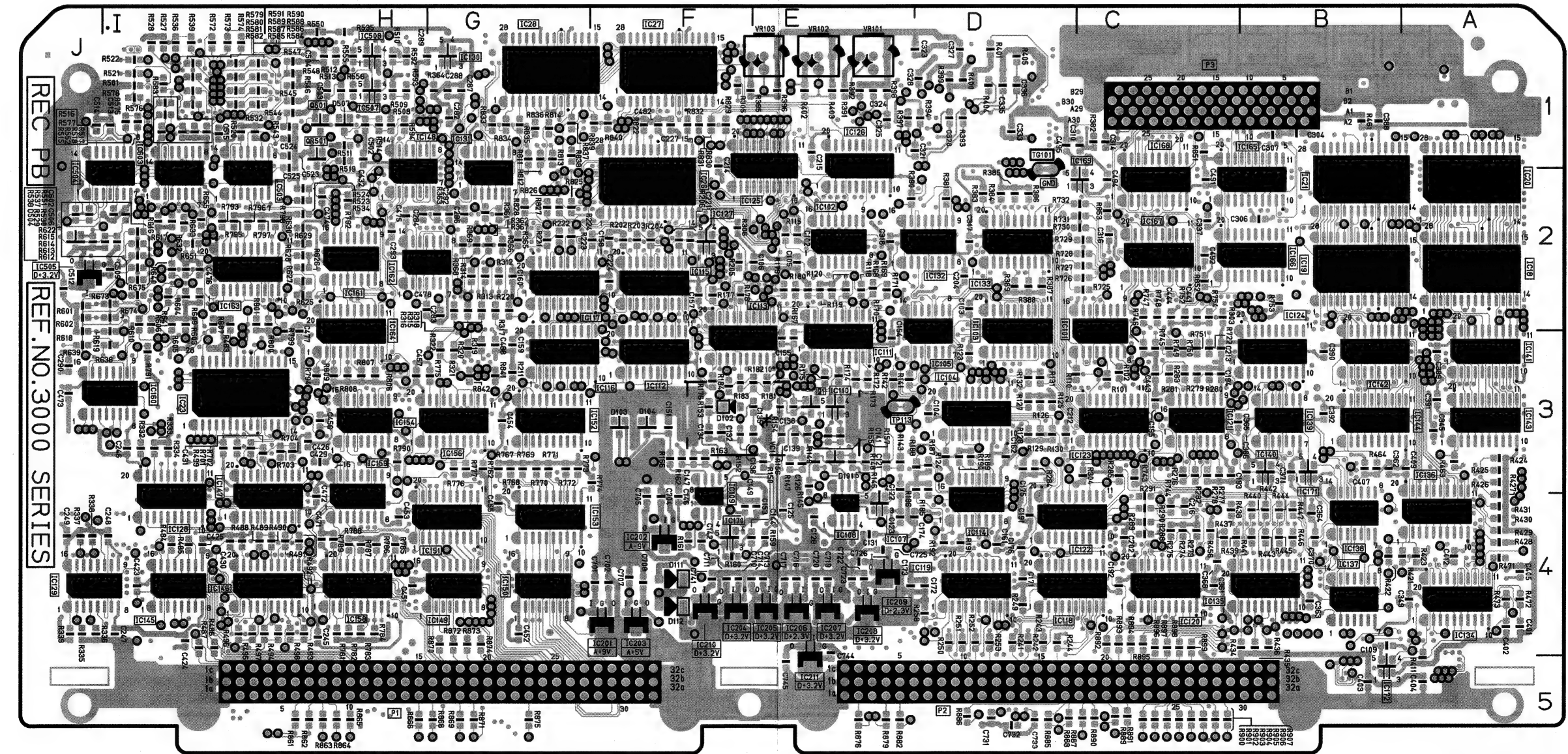


(COMPONENT SIDE)

F5: REC PB P.C. BOARD (VEP83353D: NTSC, VEP83353E: PAL)

REF	LOC	REF	LOC	REF	LOC	REC	LOC	REC	LOC	REC	LOC	REC	LOC
IC101	C3	IC116	G3	IC130	G1	IC144	B3	IC160	I3	IC19	B2	IC23	I3
IC102	E2	IC117	G2	IC131	G2	IC145	I4	IC161	H2	IC20	A2	IC26	F2
IC103	D3	IC118	D4	IC132	D2	IC146	H4	IC162	H2	IC201	F4	IC27	F1
IC104	D3	IC119	D4	IC133	D2	IC147	H4	IC163	I2	IC202	F4	IC28	G1
IC105	D3	IC120	C4	IC134	A4	IC148	H2	IC164	H3	IC203	F4	IC503	I2
IC107	E4	IC121	C3	IC135	B4	IC149	G4	IC165	B2	IC204	F4	IC504	I2
IC108	E4	IC122	D4	IC136	A4	IC150	G4	IC166	B2	IC205	E4	IC505	J2
IC109	F4	IC123	C3	IC137	B4	IC151	G4	IC167	C2	IC206	E4	IC507	H1
IC110	E3	IC124	B3	IC138	B4	IC152	G3	IC168	C2	IC207	E4	IC508	H1
IC111	E3	IC125	E2	IC139	B3	IC153	G4	IC169	C2	IC208	E4	IC603	I2
IC112	F3	IC126	E2	IC140	B3	IC154	H3	IC170	F4	IC209	E4	Q1	E3
IC113	F3	IC127	F2	IC141	A3	IC156	G3	IC171	B3	IC21	B2	Q501	H1
IC114	D4	IC128	I4	IC142	B3	IC158	H4	IC172	B5	IC210	F4	QR501	H1
IC115	F2	IC129	J4	IC143	A3	IC159	H4	IC18	A2	IC211	E5		

(FOIL SIDE)

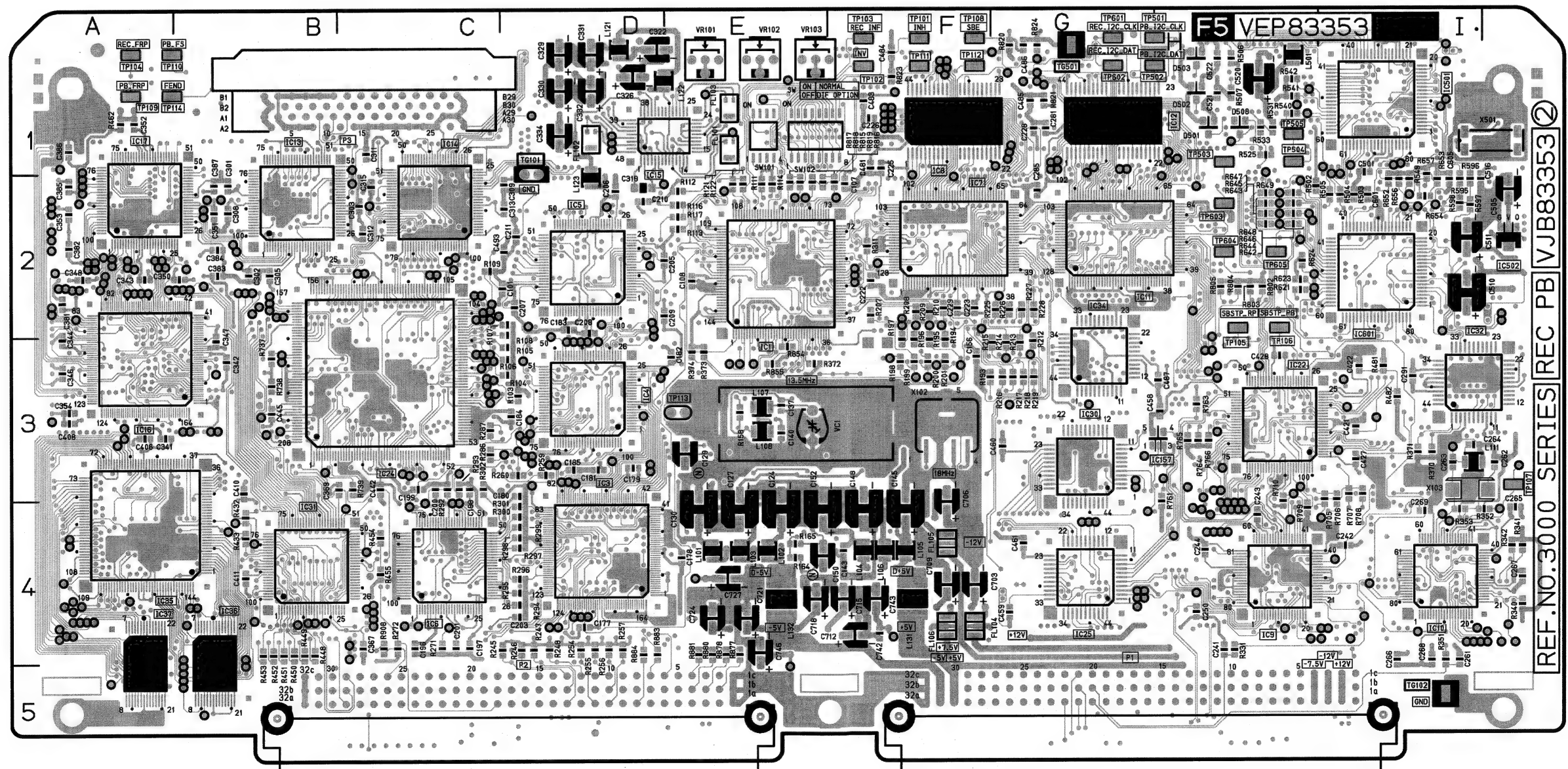
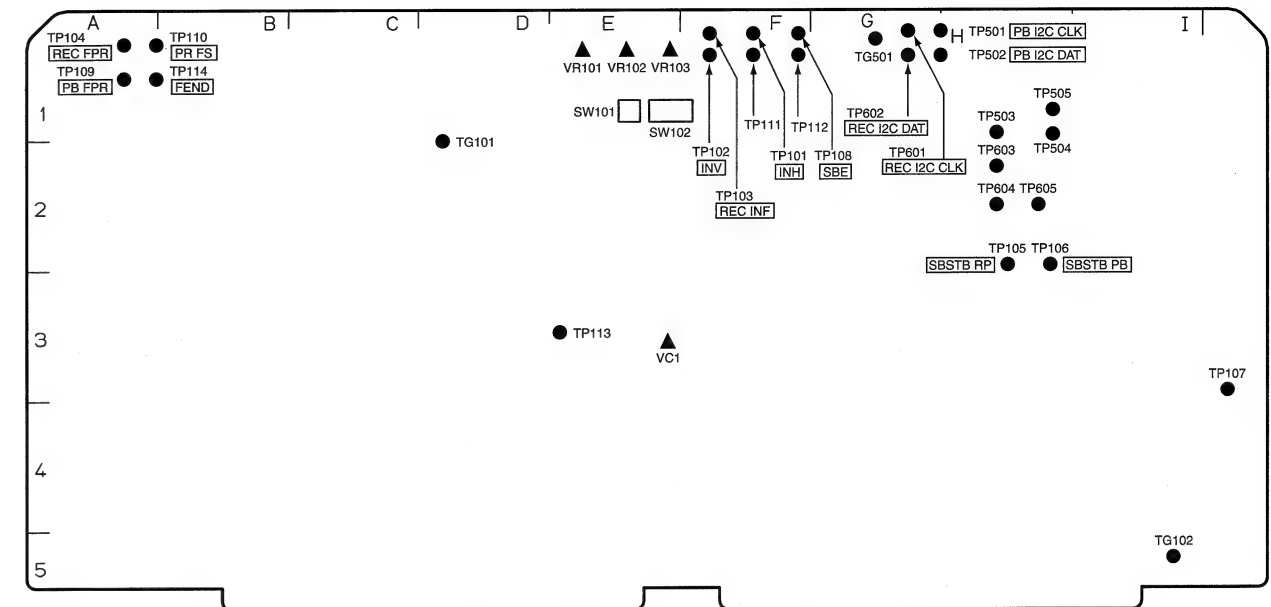


(FOIL SIDE)

F5: REC PB P.C. BOARD (VEP83353D: NTSC, VEP83353E: PAL)

REF	LOC	REC	LOC	REC	LOC	REC	LOC	REC	LOC
IC1	E2	IC30	G3	IC8	F1	TP105	H2	TP505	H1
IC10	I4	IC31	C4	IC9	H4	TP106	H2	TP601	G1
IC11	G2	IC32	I3	P1	G5	TP107	J3	TP602	G1
IC12	G1	IC34	G3	P2	D5	TP108	F1	TP603	H2
IC13	B2	IC35	A4	P3	C1	TP109	A1	TP604	H2
IC14	C2	IC36	B5	SW101	E1	TP110	A1	TP605	H2
IC15	D1	IC37	A5	SW102	E1	TP111	F1	VC1	E3
IC157	H3	IC4	D3	TG101	D2	TP112	F1	VR101	E1
IC16	A3	IC5	D2	TG102	I5	TP113	E3	VR102	E1
IC17	A2	IC501	I1	TG501	G1	TP114	A1	VR103	E1
IC22	H3	IC502	J2	TP101	F1	TP501	H1	X102	F3
IC24	C3	IC6	C4	TP102	F1	TP502	H1	X103	I3
IC25	G4	IC601	I2	TP103	F1	TP503	H1	X501	J1
IC3	D4	IC7	F2	TP104	A1	TP504	H1		

(COMPONENT SIDE)

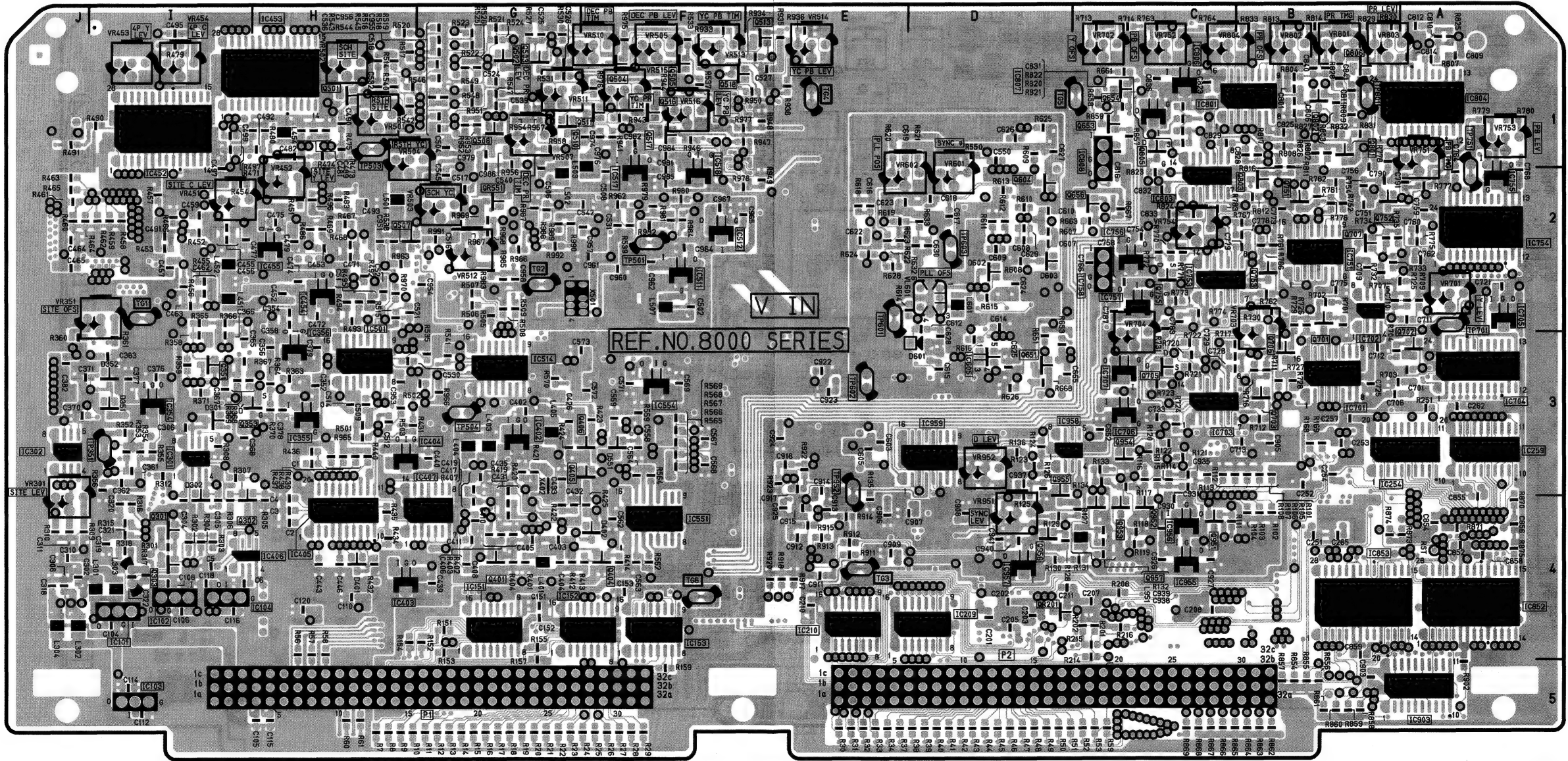


(COMPONENT SIDE)

F6: V IN P.C. BOARD (VEP83397B: 450 (NTSC), VEP83397A: Japan only)

REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC	REC	LOC	REC	LOC	REC	LOC
IC404	H3	IC151	G4	IC551	F4	IC756	C2	IC959	D3	Q505	F1	Q701	B2	Q806	B1
IC405	H4	IC152	F4	IC554	F3	IC757	C2	Q301	I4	Q507	H2	Q702	A3	Q951	C4
IC406	I4	IC153	F4	IC605	D3	IC801	B1	Q302	I4	Q508	G1	Q703	B3	Q952	C4
IC407	G4	IC209	D4	IC701	B3	IC803	C2	Q303	I4	Q510	G1	Q705	C3	Q953	C4
IC452	I1	IC210	E4	IC702	B2	IC804	A1	Q351	I3	Q511	F1	Q706	B3	Q954	C3
IC453	H1	IC254	A3	IC703	C3	IC806	C1	Q353	H3	Q513	E1	Q707	B2	Q955	D3
IC454	H2	IC259	A3	IC704	A3	IC807	C1	Q401	G4	Q516	F1	Q751	B2	Q956	D4
IC455	H2	IC301	I3	IC705	A2	IC852	A4	Q404	F4	Q517	F1	Q752	B2	Q957	C4
IC501	H3	IC302	J3	IC706	C3	IC853	B4	Q405	F3	Q518	F1	Q753	B2	QR201	D4
IC511	F2	IC354	I3	IC707	C3	IC903	A5	Q406	F3	Q604	D2	Q755	C2	QR551	G2
IC512	F2	IC355	H3	IC751	B2	IC955	C4	Q501	H1	Q651	D3	Q801	B1		
IC514	G3	IC356	H3	IC753	C2	IC956	C4	Q502	G1	Q653	C1	Q802	B1		
IC517	F1	IC402	G3	IC754	A2	IC957	D4	Q503	G1	Q654	C1	Q803	B2		
IC518	F2	IC403	H4	IC755	A2	IC958	D3	Q504	F1	Q656	C2	Q805	C1		

(FOIL SIDE)

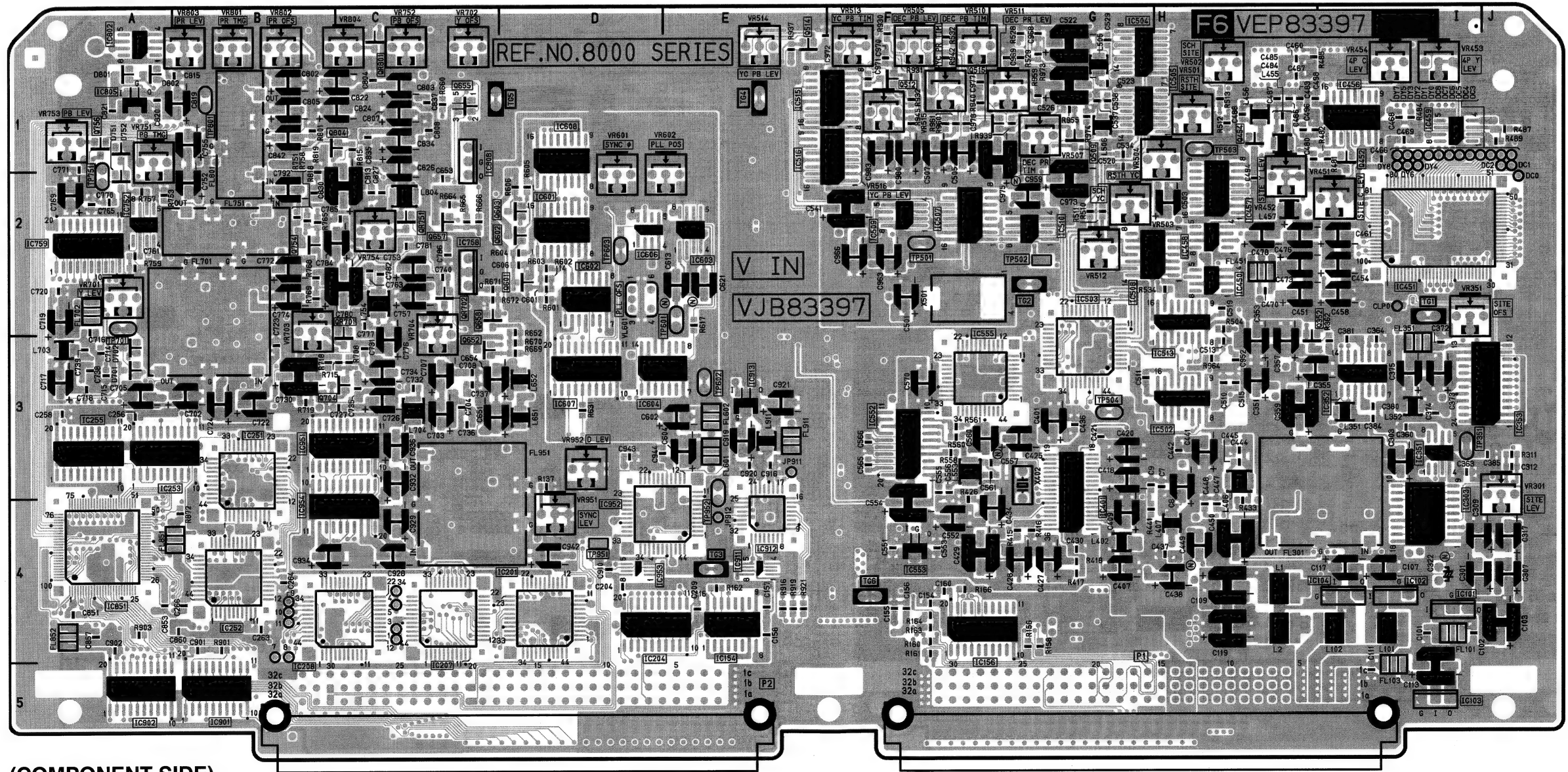
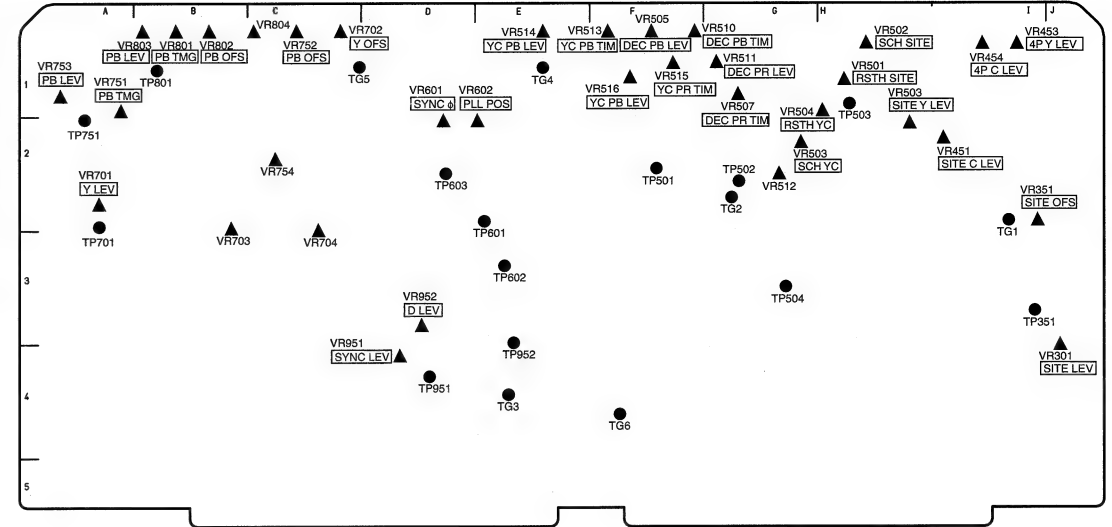


(FOIL SIDE)

F6: V IN P.C. BOARD (VEP83397B: 450 (NTSC), VEP83397A: Japan only)

REF	LOC	REF	LOC	REF	LOC	REF	LOC	REC	LOC	REC	LOC	REC	LOC	REC	LOC
IC101	I4	IC451	I2	IC602	D2	IC953	D4	Q756	A1	TP701	A2	VR512	G2	VR952	D3
IC102	I4	IC456	I1	IC603	E2	IC954	C4	Q804	B1	TP751	A2	VR513	F1	X402	G3
IC103	I5	IC457	H2	IC604	D3	P1	G5	QR701	C3	TP801	B1	VR514	E1	X501	F2
IC104	I4	IC458	H2	IC606	D2	P2	D5	QR702	C2	TP951	D4	VR515	F1		
IC154	E4	IC459	I1	IC607	D3	Q352	H3	QR751	C2	TP952	E3	VR516	F1		
IC156	F4	IC502	H3	IC608	D1	Q452	I1	QR801	C1	VL601	D2	VR601	D2		
IC201	D4	IC503	G3	IC752	A2	Q454	H1	TG1	I2	VR301	J3	VR602	E2		
IC204	D4	IC504	G1	IC758	C2	Q509	G1	TG2	G2	VR351	I2	VR701	A2		
IC207	C4	IC505	G1	IC759	A2	Q512	F1	TG3	E4	VR451	I2	VR702	C1		
IC208	C4	IC507	F2	IC802	A1	Q514	E1	TG4	E1	VR452	H2	VR703	B2		
IC251	B3	IC508	G2	IC805	A1	Q515	G1	TG5	C1	VR453	I1	VR704	C2		
IC252	B4	IC509	F2	IC808	C1	Q601	D2	TG6	F4	VR454	I1	VR751	A1		
IC253	A3	IC510	G2	IC851	A4	Q602	D2	TP351	I3	VR501	H1	VR752	C1		
IC255	A3	IC513	H2	IC901	B5	Q603	D2	TP501	F2	VR502	H1	VR753	A1		
IC303	I4	IC515	F1	IC902	A5	Q652	C3	TP502	G2	VR503	G2	VR754	C2		
IC351	I3	IC516	F1	IC911	E4	Q655	C1	TP503	H1	VR504	H1	VR801	B1		
IC352	I3	IC552	F3	IC912	E4	Q657	C2	TP504	G3	VR505	F1	VR802	B1		
IC353	J3	IC553	F4	IC913	E3	Q658	C2	TP601	E2	VR507	G1	VR803	B1		
IC401	G3	IC555	F3	IC951	C3	Q704	C3	TP602	E3	VR510	F1	VR804	C1		
IC450	H2	IC601	D2	IC952	D4	Q754	B2	TP603	D2	VR511	G1	VR951	D4		

(COMPONENT SIDE)

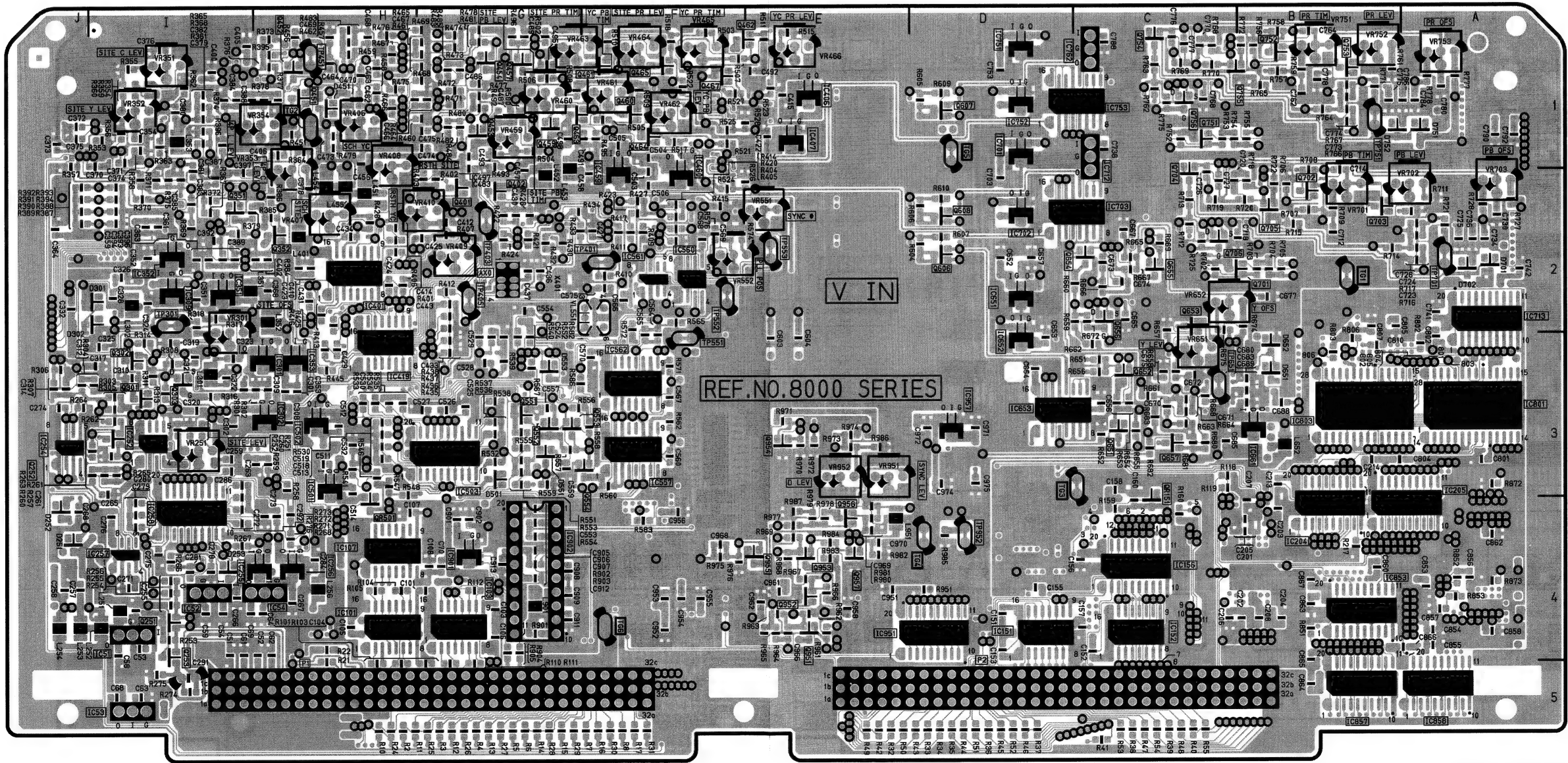


(COMPONENT SIDE)

F6: V IN P.C. BOARD (VEP83398A: 450 (PAL))

REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC
IC101	H4	IC301	H3	IC503	G3	IC752	D1	Q302	I3	Q462	F1	Q653	C2	Q754	C1
IC103	G4	IC302	H3	IC557	F3	IC753	C1	Q303	I3	Q463	G1	Q654	C2	Q755	C1
IC107	H4	IC309	I2	IC560	F2	IC801	A3	Q351	I2	Q464	F1	Q655	C2	Q756	C1
IC151	D4	IC351	I2	IC561	F2	IC803	B3	Q352	H2	Q465	F1	Q656	C2	Q951	E4
IC152	C4	IC352	I2	IC562	F3	IC853	B4	Q401	G2	Q467	F1	Q657	C3	Q952	E4
IC156	C4	IC353	H3	IC651	D2	IC857	B5	Q402	G2	Q551	G3	Q701	C2	Q953	E4
IC204	B4	IC401	H2	IC652	D3	IC858	A5	Q451	H1	Q552	G3	Q702	B2	Q954	E3
IC205	A4	IC406	E1	IC653	D3	IC901	G4	Q452	H1	Q553	G3	Q703	B2	Q955	E4
IC252	I3	IC407	E1	IC661	B3	IC951	D4	Q453	G1	Q554	G3	Q704	C2	Q956	E4
IC254	J3	IC419	H3	IC701	D1	IC957	D3	Q454	G1	Q606	D2	Q705	B2	Q957	E4
IC255	H4	IC459	F2	IC702	D2	Q251	I4	Q457	G1	Q607	D1	Q706	C2	QR151	C4
IC256	H4	IC460	F2	IC703	C2	Q252	I3	Q459	G1	Q608	D2	Q751	C1	QR501	H4
IC257	I4	IC501	H3	IC713	A2	Q253	I4	Q460	F1	Q651	C3	Q752	B1		
IC258	I4	IC502	H3	IC751	D1	Q301	I3	Q461	F1	Q652	C3	Q753	B1		

(FOIL SIDE)

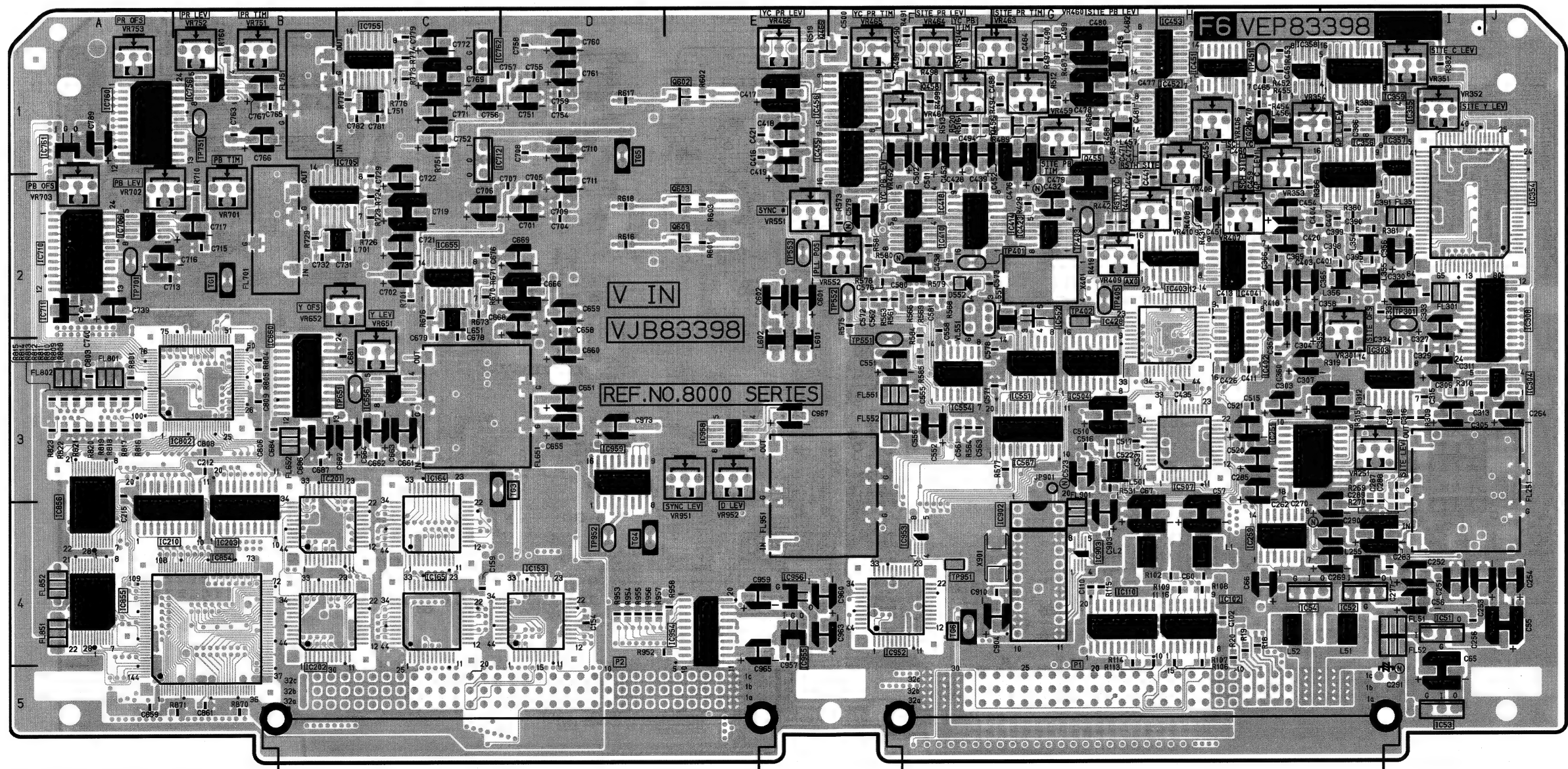
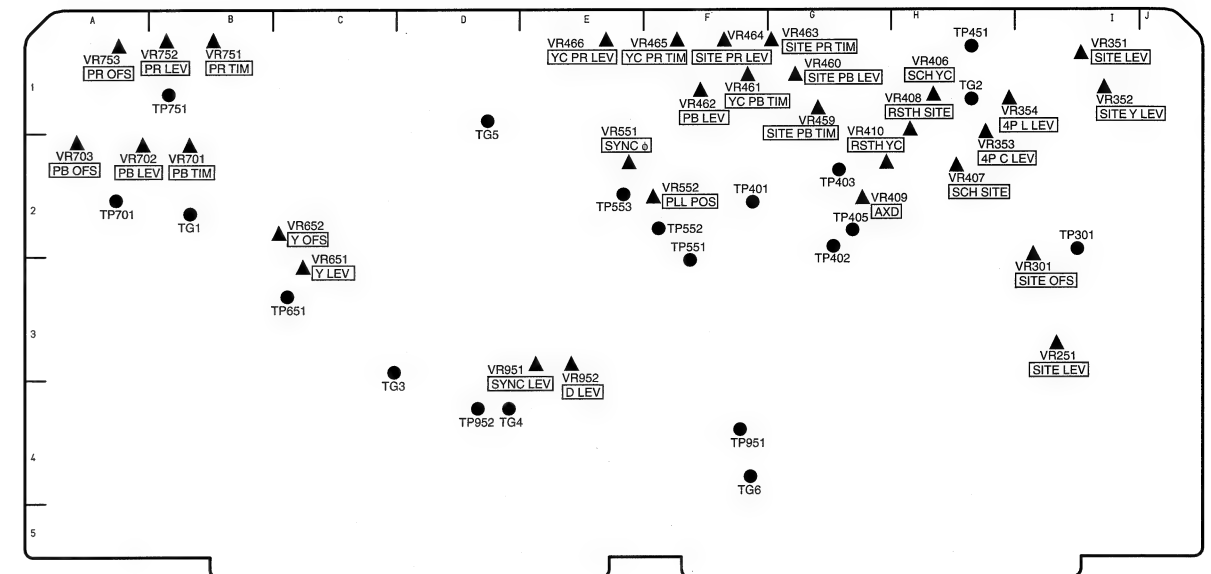


(FOIL SIDE)

F6: V IN P.C. BOARD (VEP83398A: 450 (PAL))

REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC	REC	LOC
IC102	H4	IC402	H2	IC552	G2	IC902	G4	TG3	C3	VR351	I1	VR652	C2
IC110	G4	IC403	H2	IC554	F3	IC903	G4	TG4	D4	VR352	I1	VR701	B2
IC153	D4	IC404	H2	IC567	G3	IC952	F4	TG5	D1	VR353	H1	VR702	A2
IC164	C4	IC410	F2	IC655	C2	IC953	F4	TG6	F4	VR354	H1	VR703	A2
IC165	C4	IC414	F2	IC656	C3	IC954	E4	TP301	I2	VR406	H1	VR751	B1
IC201	B4	IC418	F2	IC660	B3	IC955	E4	TP401	F2	VR407	H2	VR752	B1
IC202	B4	IC423	G2	IC705	B2	IC956	E4	TP402	G2	VR408	H1	VR753	A1
IC203	B4	IC428	H2	IC706	A2	IC958	E3	TP403	G2	VR409	G2	VR951	E3
IC210	A4	IC451	H1	IC710	A2	IC959	D3	TP405	G2	VR410	G2	VR952	E3
IC251	H3	IC452	H1	IC711	A2	P1	G5	TP451	H1	VR459	G1	X401	G2
IC259	H4	IC453	H1	IC712	C1	P2	D5	TP551	F3	VR460	G1	X901	G4
IC303	I3	IC455	F1	IC755	C1	Q455	G1	TP552	F2	VR461	F1		
IC304	J3	IC456	F1	IC756	B1	Q456	G1	TP553	E2	VR462	F1		
IC308	J2	IC504	G3	IC760	A1	Q458	F1	TP651	C3	VR463	G1		
IC354	I2	IC507	H3	IC761	A1	Q466	E1	TP701	A2	VR464	F1		
IC355	I1	IC51	I4	IC762	C1	Q601	E2	TP751	B1	VR465	F1		
IC356	I2	IC52	I4	IC802	B3	Q602	E1	TP951	F4	VR466	E1		
IC357	I1	IC53	I5	IC854	B4	Q603	E2	TP952	D4	VR551	E2		
IC358	H1	IC54	H4	IC855	A4	TG1	B2	VR251	I3	VR552	F2		
IC359	I1	IC551	G3	IC856	A3	TG2	H1	VR301	I2	VR651	C3		

(COMPONENT SIDE)

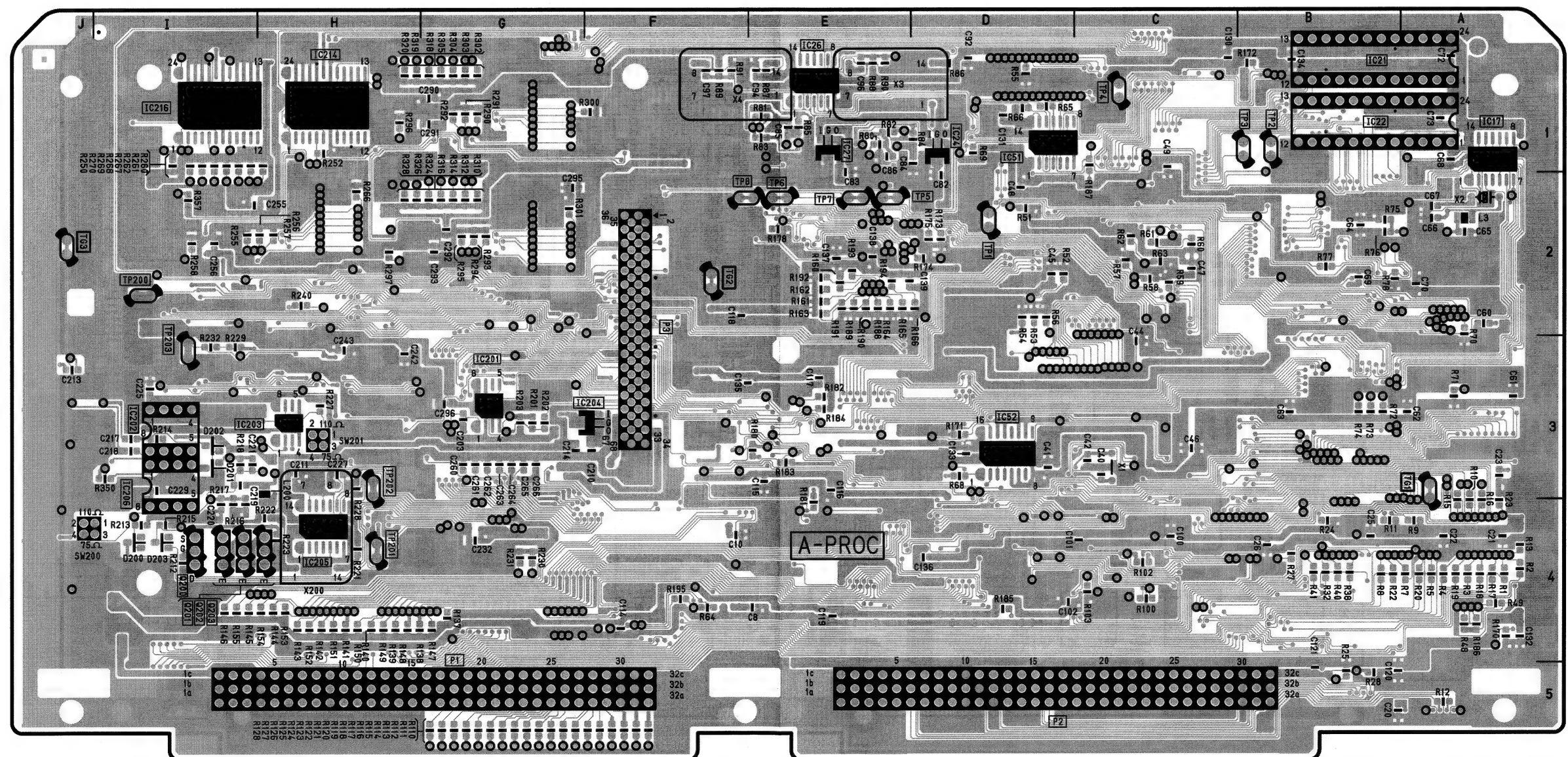


(COMPONENT SIDE)

F7: A PROC P.C. BOARD (VEP84292A: 450, VEP84292D: 440)

REF	LOC
IC17	A1
IC201	G3
IC203	H3
IC204	F3
IC205	H4
IC214	H1
IC216	I1
IC24	D1
IC26	E1
IC27	E1
IC51	D1
IC52	D3

(FOIL SIDE)

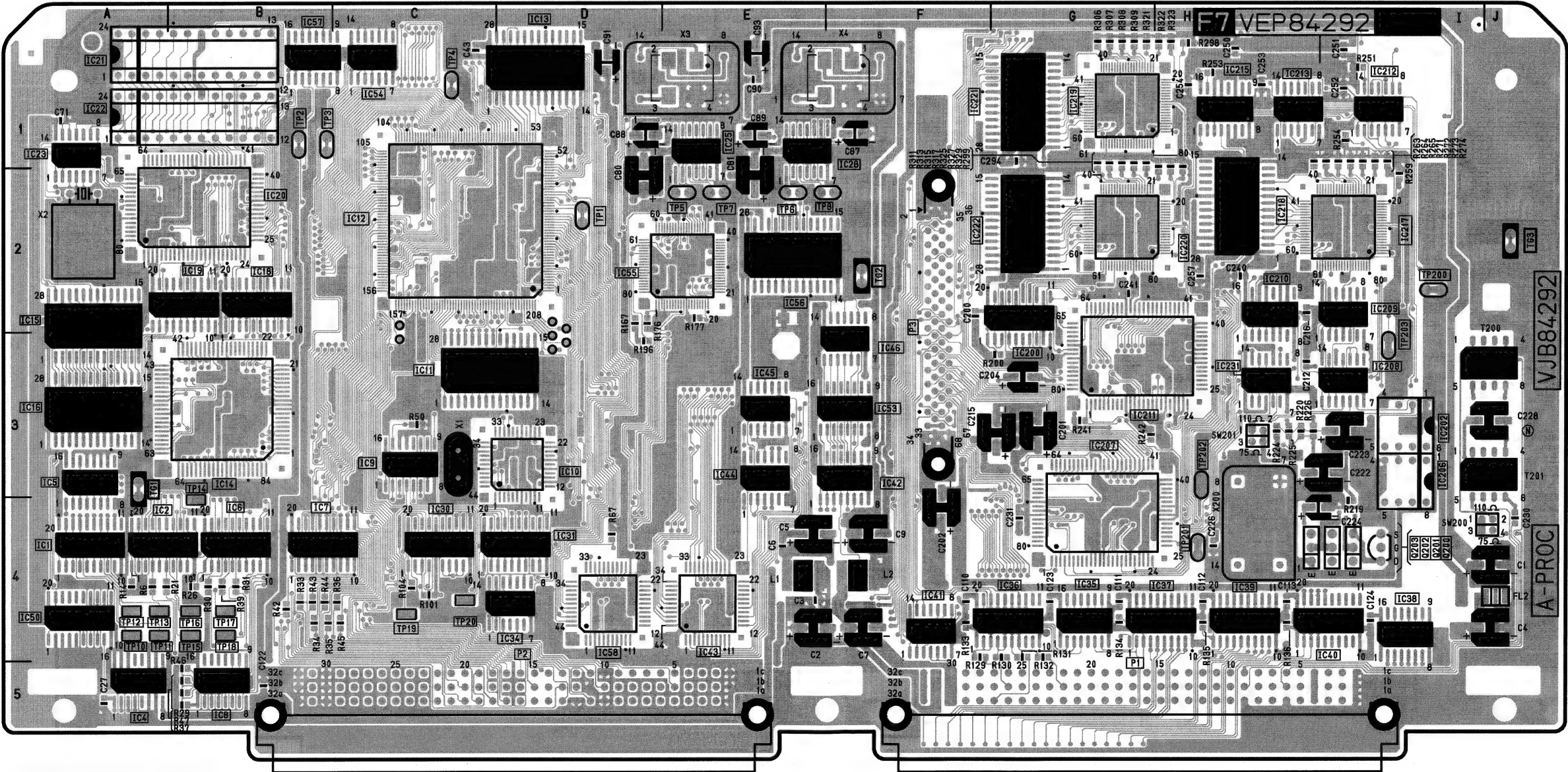
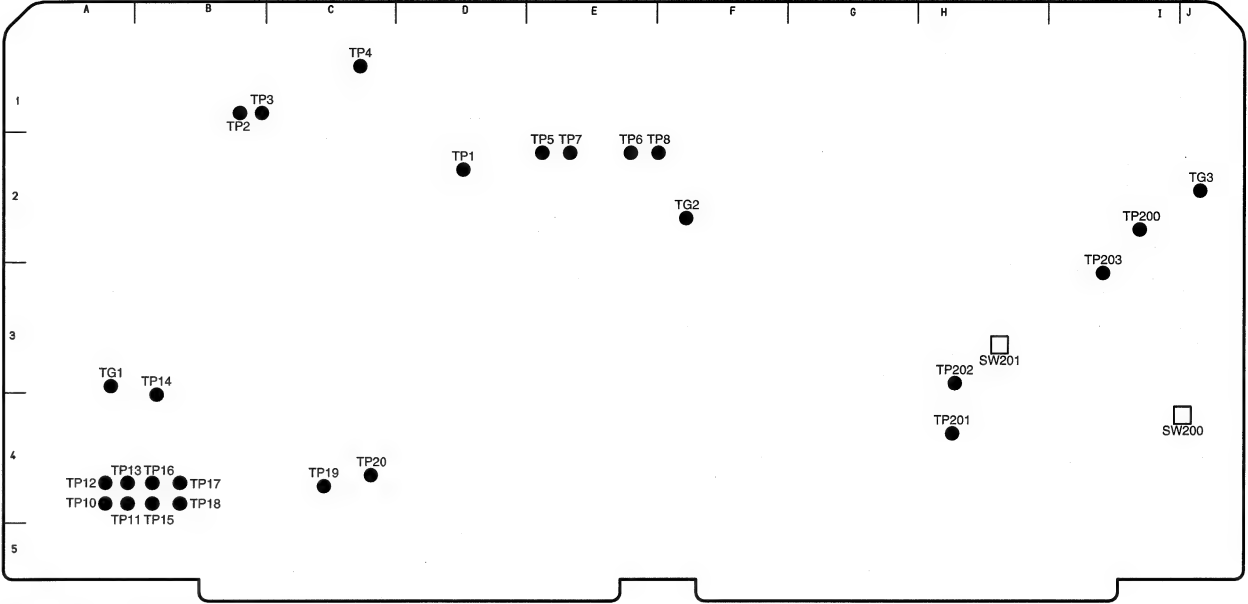


(FOIL SIDE)

F7: A PROC P.C. BOARD (VEP84292A: 450, VEP84292D: 440)

REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC
IC1	A4	IC211	G3	IC37	H4	IC7	C4	TP14	B4	X200	H4
IC10	D3	IC212	I1	IC38	I4	IC8	B5	TP15	B4	X3	D1
IC11	C3	IC213	H1	IC39	H4	IC9	C3	TP16	B4	X3A	E1
IC12	C2	IC215	H1	IC4	A5	P1	G5	TP17	B4	X4	E1
IC13	D1	IC217	I2	IC40	I4	P2	D5	TP18	B4	X4A	F1
IC14	B3	IC218	H2	IC41	F4	P3	F2	TP19	C4		
IC15	A2	IC219	G1	IC42	F3	Q200	I4	TP2	B1		
IC16	A3	IC22	A1	IC43	E4	Q201	I4	TP20	C4		
IC18	B2	IC220	G2	IC44	E3	Q202	I4	TP200	I2		
IC19	B2	IC221	G1	IC45	E3	Q203	H4	TP201	H4		
IC2	A4	IC222	G2	IC46	F3	SW200	J4	TP202	H3		
IC20	B2	IC23	A1	IC5	A3	SW201	H3	TP203	I3		
IC200	G2	IC231	H3	IC50	A4	TG1	A3	TP3	C1		
IC202	I3	IC25	E1	IC53	F3	TG2	F2	TP4	C1		
IC206	I3	IC28	E1	IC54	C1	TG3	J2	TP5	E2		
IC207	G4	IC30	C4	IC55	E2	TP1	D2	TP6	E2		
IC208	I3	IC31	D4	IC56	E2	TP10	A4	TP7	E2		
IC209	I2	IC34	D4	IC57	C1	TP11	A4	TP8	F2		
IC21	A1	IC35	G4	IC58	D4	TP12	A4	X1	C3		
IC210	H2	IC36	G4	IC6	B4	TP13	A4	X2	A2		

(COMPONENT SIDE)

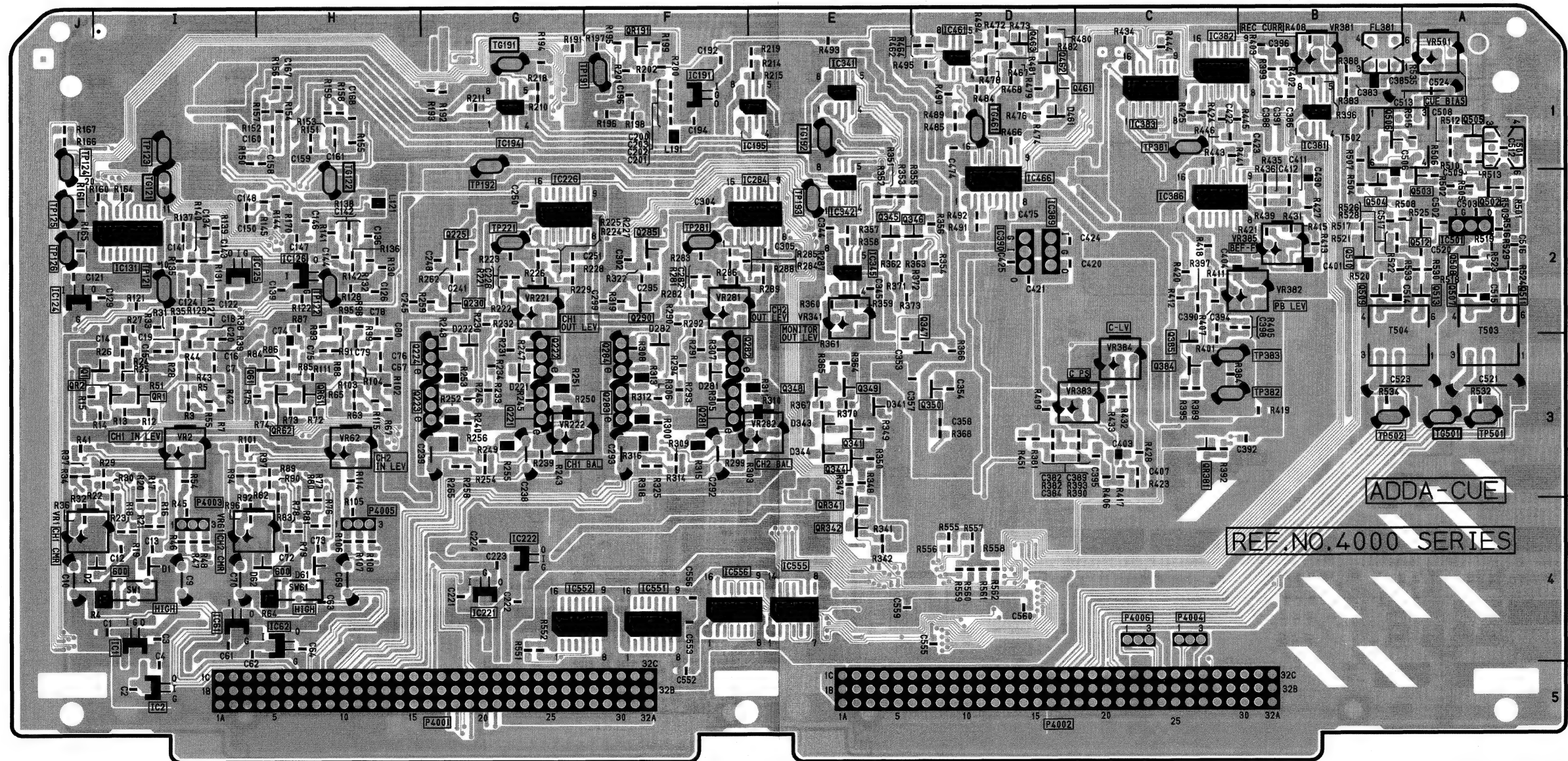


(COMPONENT SIDE)

F8: ADDA/CUE P.C. BOARD (VEP84293A: NTSC, VEP84293B:PAL)

REF	LOC	REF	LOC	REF	LOC	REC	LOC	REC	LOC
IC4001	I4	IC4284	E2	Q4001	I3	Q4384	C3	Q4511	A2
IC4002	I5	IC4341	E1	Q4061	H3	Q4385	C3	Q4512	A2
IC4061	I4	IC4342	E2	Q4225	G2	Q4461	D1	Q4513	A2
IC4062	H4	IC4345	E2	Q4230	G2	Q4462	D1	QR4001	I3
IC4124	J2	IC4381	B1	Q4285	F2	Q4463	D1	QR4002	I3
IC4125	I2	IC4382	C1	Q4290	F2	Q4502	A2	QR4061	H3
IC4126	H2	IC4383	C1	Q4341	E3	Q4503	A2	QR4062	H3
IC4131	I2	IC4386	C2	Q4344	E3	Q4504	B2	QR4191	F1
IC4191	F1	IC4461	D1	Q4345	E2	Q4505	A1	QR4341	E4
IC4194	G1	IC4466	D2	Q4346	D2	Q4506	B1	QR4342	E4
IC4195	E1	IC4551	F4	Q4347	D3	Q4507	A2	QR4381	C3
IC4221	G4	IC4552	G4	Q4348	E3	Q4508	A2		
IC4222	G4	IC4555	E4	Q4349	E3	Q4509	B2		
IC4226	G2	IC4556	F4	Q4350	D3	Q4510	B2		

(FOIL SIDE)

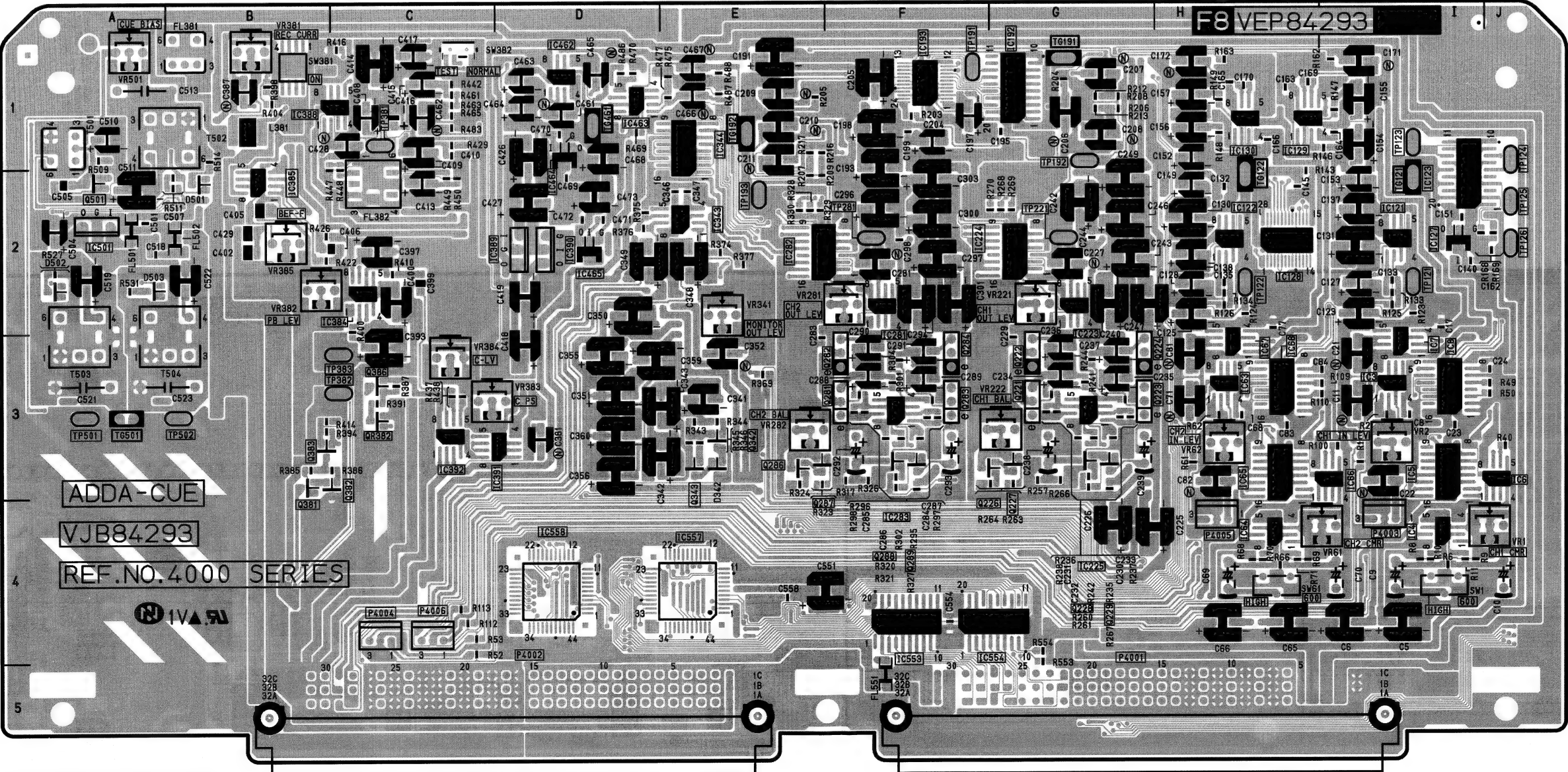
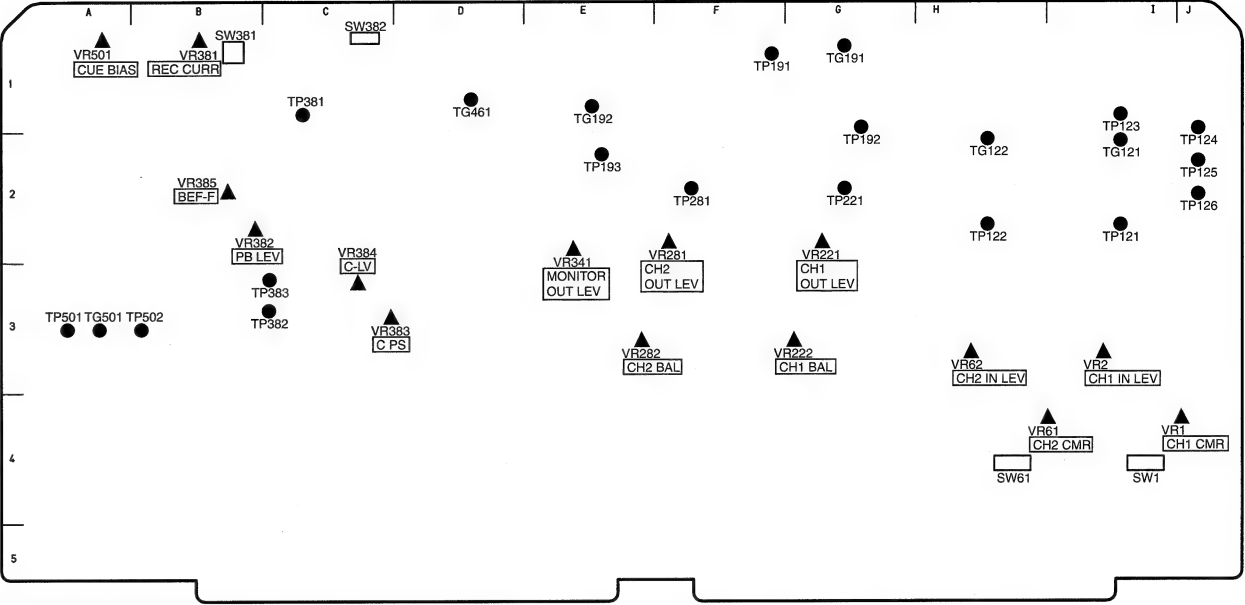


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F8: ADDA/CUE P.C. BOARD (VEP84293A: NTSC, VEP84293B:PAL)

REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC
IC4003	I3	IC4193	F1	IC4501	A2	Q4282	F3	TG4122	H2	TP4502	B3
IC4004	I4	IC4223	G2	IC4553	F4	Q4283	F3	TG4191	G1	VR4001	J4
IC4005	I3	IC4224	G2	IC4554	G4	Q4284	F3	TG4192	E1	VR4002	I3
IC4006	J3	IC4225	G3	IC4557	E4	Q4286	E3	TG4461	D1	VR4061	I4
IC4007	I3	IC4281	F2	IC4558	D4	Q4287	E3	TG4501	A3	VR4062	H3
IC4008	I3	IC4282	E2	P4001	G5	Q4288	F3	TP4121	I2	VR4221	G2
IC4063	H3	IC4283	F3	P4002	D5	Q4289	F3	TP4122	H2	VR4222	G3
IC4064	H4	IC4343	E2	P4003	I4	Q4342	E3	TP4123	I1	VR4281	F2
IC4065	H3	IC4344	E1	P4004	C4	Q4343	E3	TP4124	J1	VR4282	E3
IC4066	I3	IC4384	C2	P4005	H4	Q4381	B3	TP4125	J2	VR4341	E2
IC4067	H3	IC4385	B2	P4006	C4	Q4382	C3	TP4126	J2	VR4381	B1
IC4068	H3	IC4388	C1	Q4221	G3	Q4383	B3	TP4191	F1	VR4382	B2
IC4121	I2	IC4389	D2	Q4222	G3	Q4386	C3	TP4192	G1	VR4383	C3
IC4122	H2	IC4390	D2	Q4223	G3	Q4501	A2	TP4193	E2	VR4384	C3
IC4123	I2	IC4391	D3	Q4224	G3	QR4382	C3	TP4221	G2	VR4385	B2
IC4127	I2	IC4392	C3	Q4226	F3	SW4001	I4	TP4281	F2	VR4501	A1
IC4128	H2	IC4462	D1	Q4227	G3	SW4061	H4	TP4381	C1		
IC4129	H1	IC4463	D1	Q4228	G3	SW4381	B1	TP4382	C3		
IC4130	H1	IC4464	D1	Q4229	G3	SW4382	C1	TP4383	C3		
IC4192	G1	IC4465	D2	Q4281	F3	TG4121	I2	TP4501	A3		

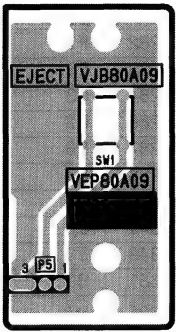
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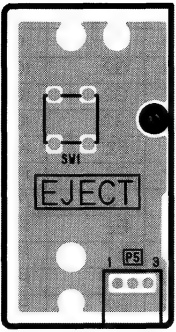
FRONT CPU P.C. BOARD (VEP86256A: 450, VEP86256B:440) and EJECT P.C. BOARD (VEP80A09A)

REF	LOC
IC12	A1
IC13	A1
Q1	L1
Q2	J1
Q3	I1
Q4	I1
Q5	H1
QR1	I2
QR2	H3
QR3	F4

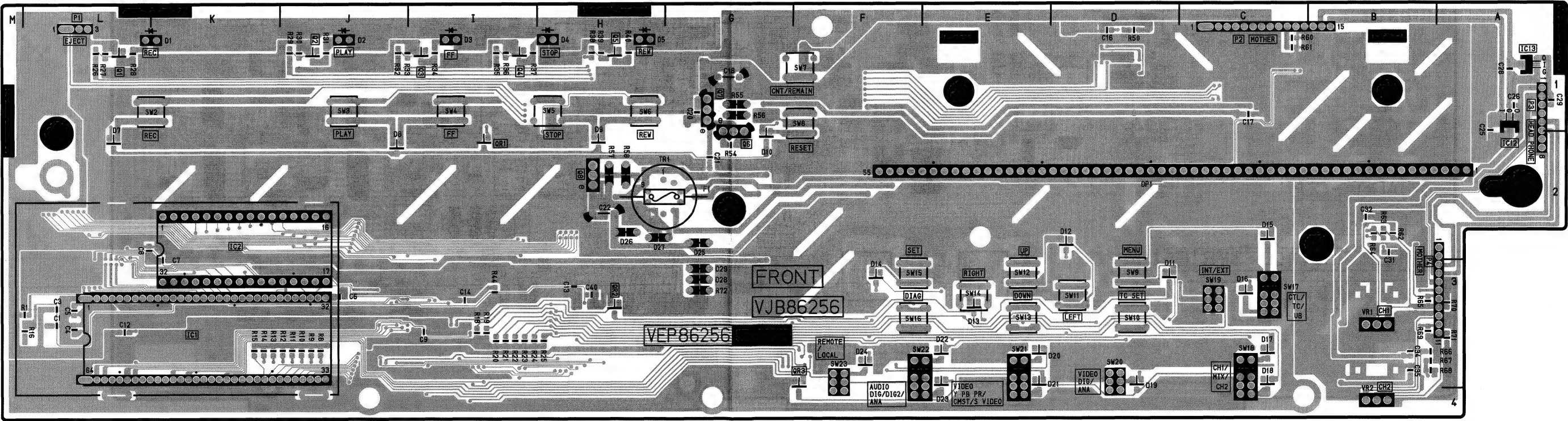
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(FOIL SIDE)



(COMPONENT SIDE)

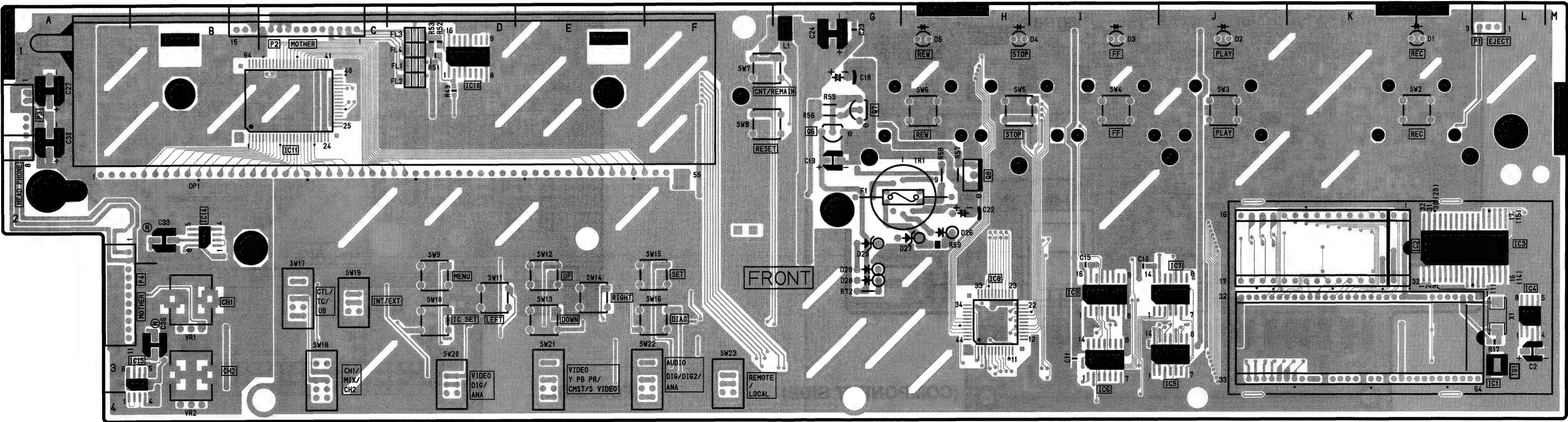
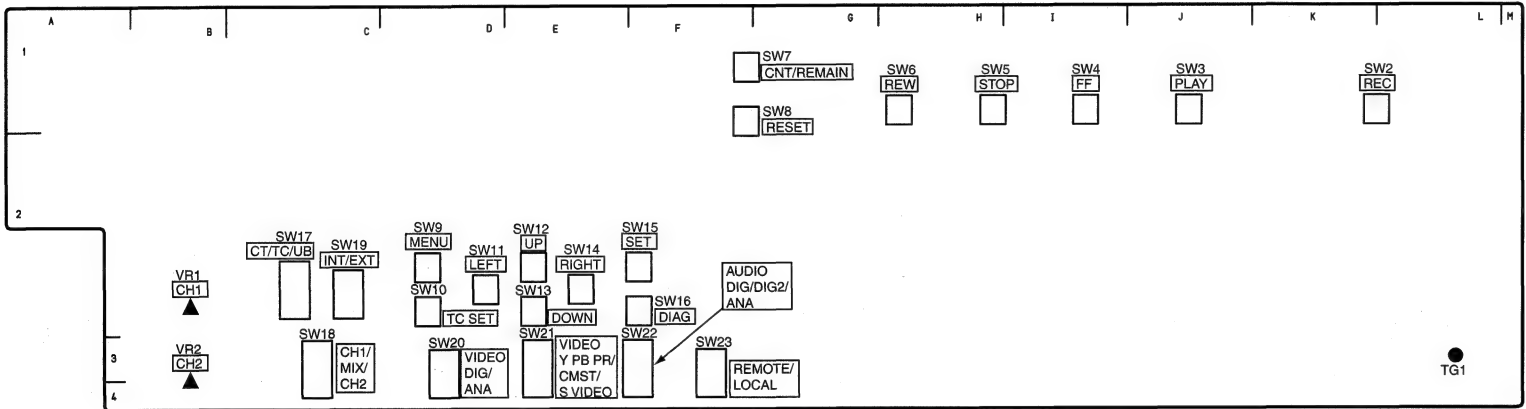


(FOIL SIDE)

FRONT CPU P.C. BOARD (VEP86256A: 450, VEP86256B:440)

REF	LOC	REF	LOC	REF	LOC	REF	LOC
IC1	L3	P2	C1	SW18	C3	TG1	L3
IC10	D1	P3	A1	SW19	C3	VR1	B3
IC11	C1	P4	A2	SW2	L1	VR2	B3
IC14	B2	Q6	G2	SW20	D3	X1	L3
IC15	B3	Q7	G1	SW21	E3		
IC2	K2	Q8	H2	SW22	F3		
IC3	L2	SW10	D3	SW23	F3		
IC4	L3	SW11	D3	SW3	J1		
IC5	J3	SW12	E3	SW4	I1		
IC6	I3	SW13	E3	SW5	H1		
IC7	J3	SW14	E3	SW6	H1		
IC8	H3	SW15	F3	SW7	F1		
IC9	I3	SW16	F3	SW8	F1		
P1	L1	SW17	C3	SW9	D3		

(COMPONENT SIDE)

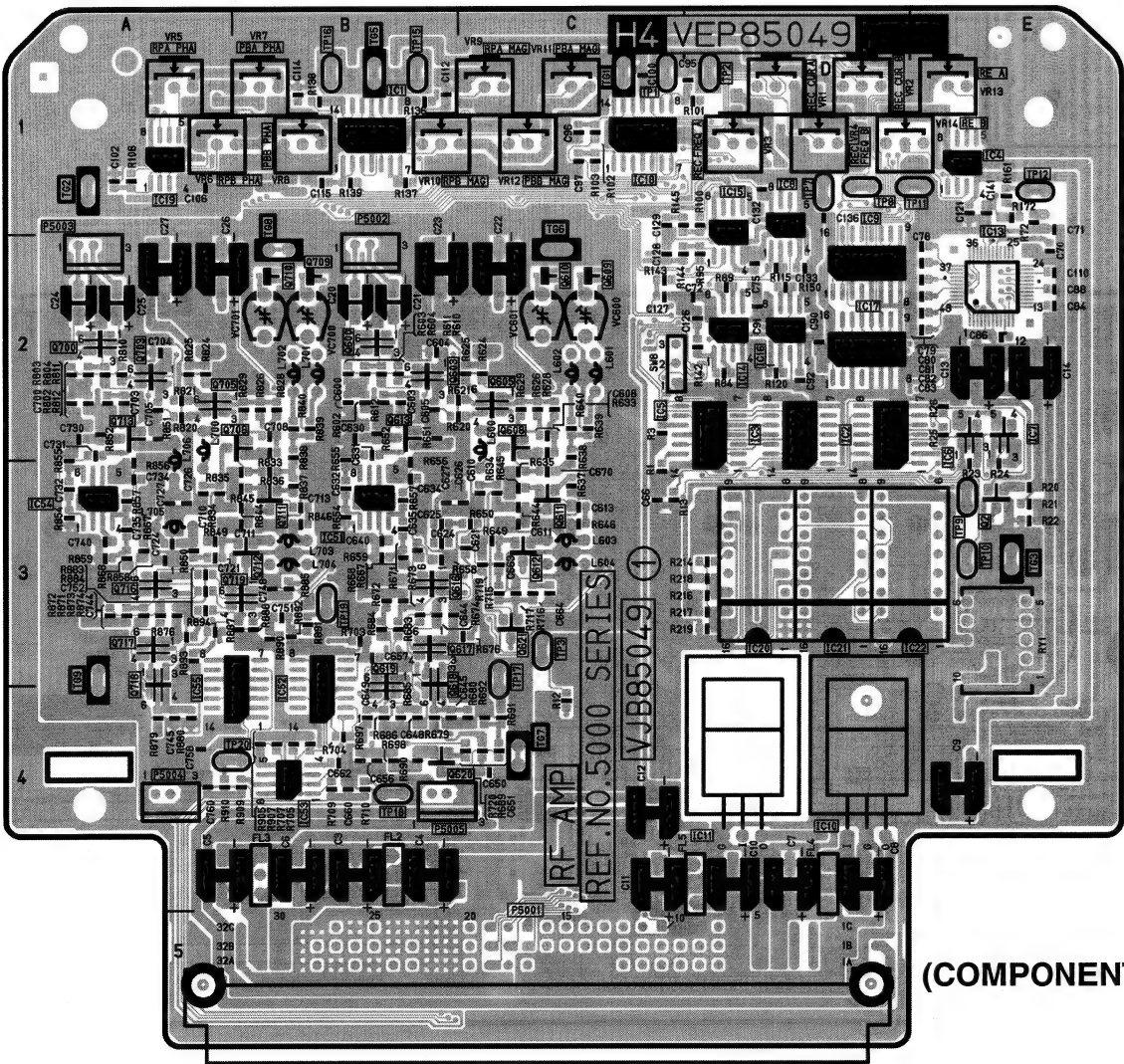


(COMPONENT SIDE)

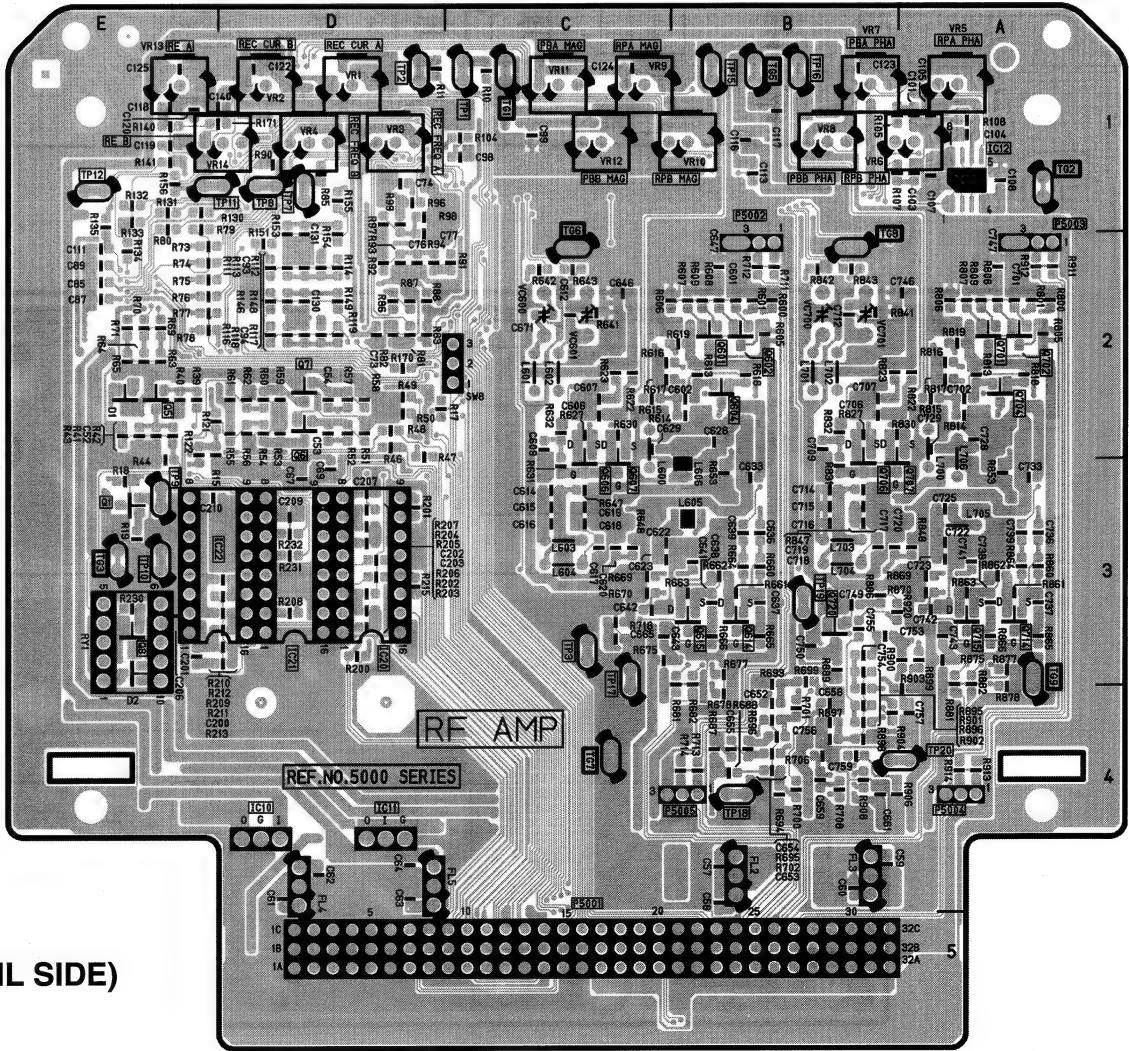
RF AMP P.C.BOARD (VEP85049A)

COMPONENT SIDE			
REF	LOC	REF	LOC
IC5010	D4	TP5011	E1
IC5011	D4	TP5012	E1
IC5020	D3	TP5015	B1
IC5021	D3	TP5016	B1
IC5022	E3	TP5017	C3
P5001	C5	TP5018	B4
P5002	B2	TP5019	B3
P5003	A2	TP5020	A4
P5004	A4	VC5600	C2
P5005	B4	VC5601	C2
SW5006	C2	VC5700	B2
TG5001	C1	VC5701	B2
TG5002	A1	VR5001	D1
TG5003	E3	VR5002	D1
TG5005	B1	VR5003	D1
TG5006	C2	VR5004	D1
TG5007	C4	VR5005	A1
TG5008	B2	VR5006	A1
TG5009	A3	VR5007	B1
TP5001	C1	VR5008	B1
TP5002	D1	VR5009	C1
TP5003	C3	VR5010	B1
TP5007	D1	VR5011	C1
TP5008	D1	VR5012	C1
TP5009	E3	VR5013	E1
TP5010	E3	VR5014	D1

FOIL SIDE					
REF	LOC	REF	LOC	REF	LOC
IC5001	D1	Q5007	D2	Q5702	A2
IC5002	B2	Q5008	E3	Q5703	E2
IC5003	B2	Q5600	D2	Q5704	A2
IC5004	A1	Q5601	B2	Q5705	E2
IC5005	B2	Q5602	B2	Q5706	B3
IC5006	A2	Q5603	D2	Q5707	B3
IC5007	A2	Q5604	B2	Q5708	D2
IC5008	B1	Q5605	C2	Q5709	D2
IC5009	B2	Q5606	C3	Q5710	D2
IC5012	A1	Q5607	C3	Q5711	D3
IC5013	A2	Q5608	C2	Q5712	D3
IC5014	B2	Q5609	C2	Q5713	E2
IC5015	B1	Q5610	C2	Q5714	A3
IC5016	B2	Q5611	C3	Q5715	A3
IC5017	B2	Q5612	C3	Q5716	E3
IC5018	C1	Q5613	D2	Q5717	E3
IC5019	E1	Q5614	B3	Q5718	E3
IC5051	D3	Q5615	B3	Q5719	D3
IC5052	D4	Q5616	D3	Q5720	B3
IC5053	D4	Q5617	D3		
IC5054	E3	Q5618	D3		
IC5055	D4	Q5619	D4		
Q5001	E3	Q5620	D4		
Q5002	A3	Q5621	C3		
Q5005	E2	Q5700	E2		
Q5006	D2	Q5701	A2		



(COMPONENT SIDE)

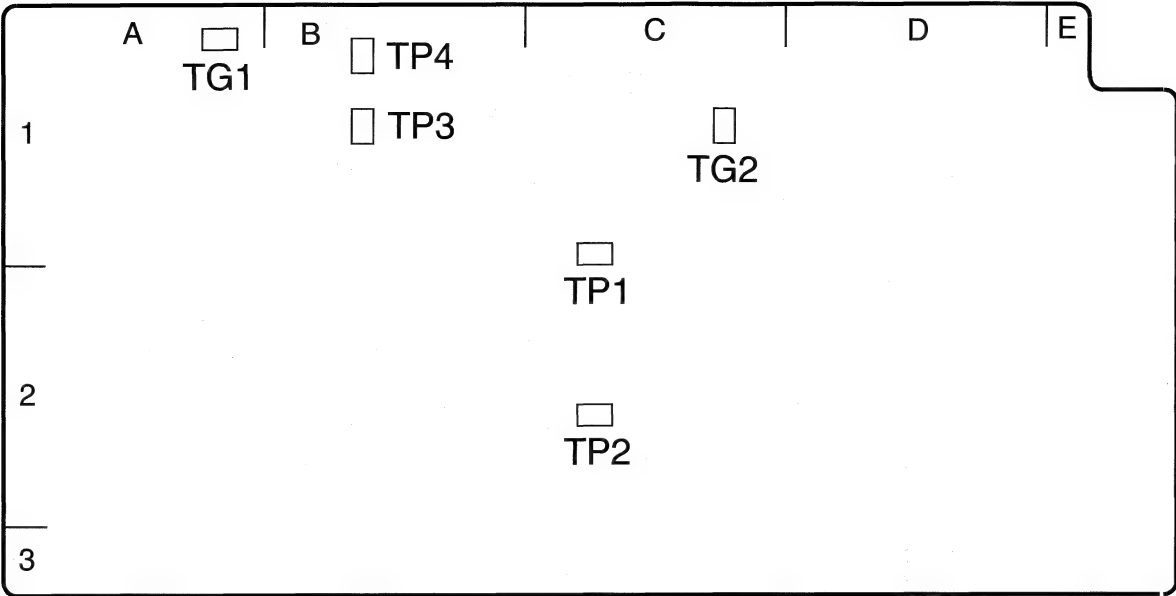


(FOIL SIDE)

HEAD BUFF P.C.BOARD (VEP85151A)

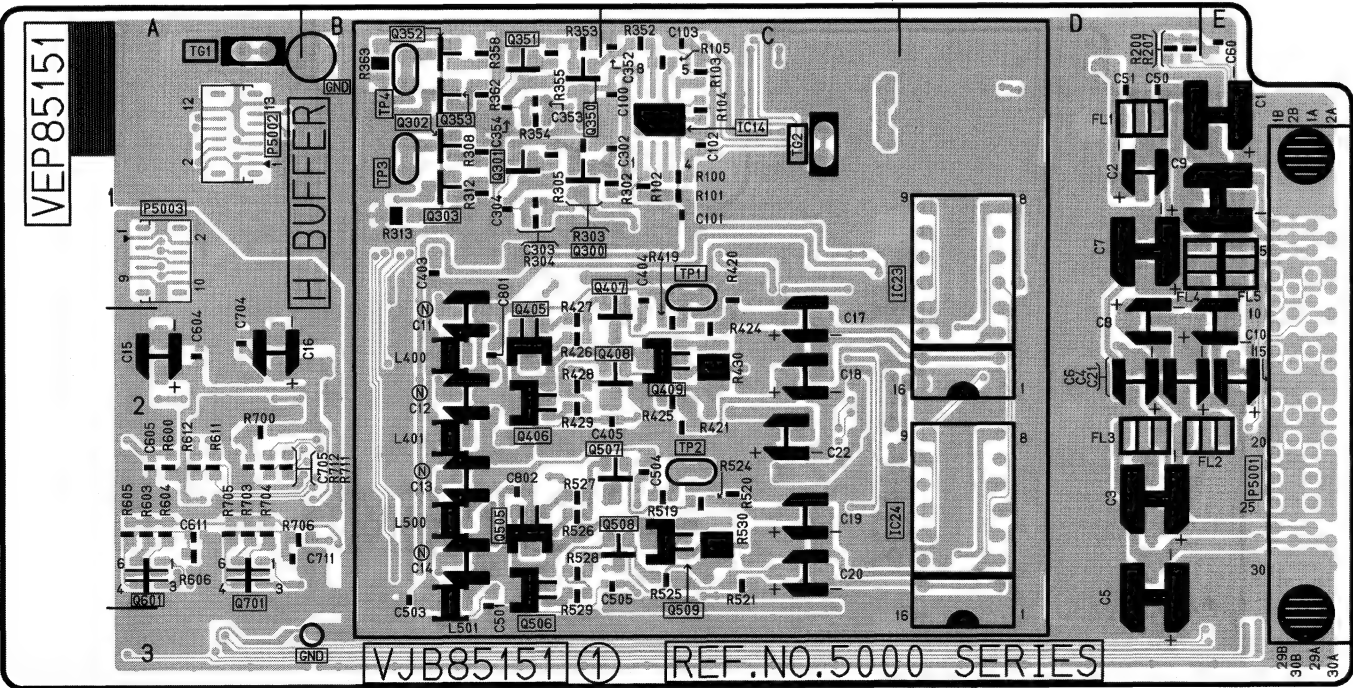
COMPONENT SIDE

REF	LOC
IC14	C1
IC23	D1
IC24	D2
P5001	E2
P5002	A1
P5003	A1
Q300	B1
Q301	B1
Q302	B1
Q303	B1
Q350	B1
Q351	B1
Q352	B1
Q353	B1
Q405	B2
Q406	B2
Q407	C2
Q408	C2
Q409	C2
Q505	B2
Q506	B2
Q507	C2
Q508	C2
Q509	C2
Q601	A2
Q701	A2
TG1	A1
TG2	C1
TP1	C1
TP2	C2

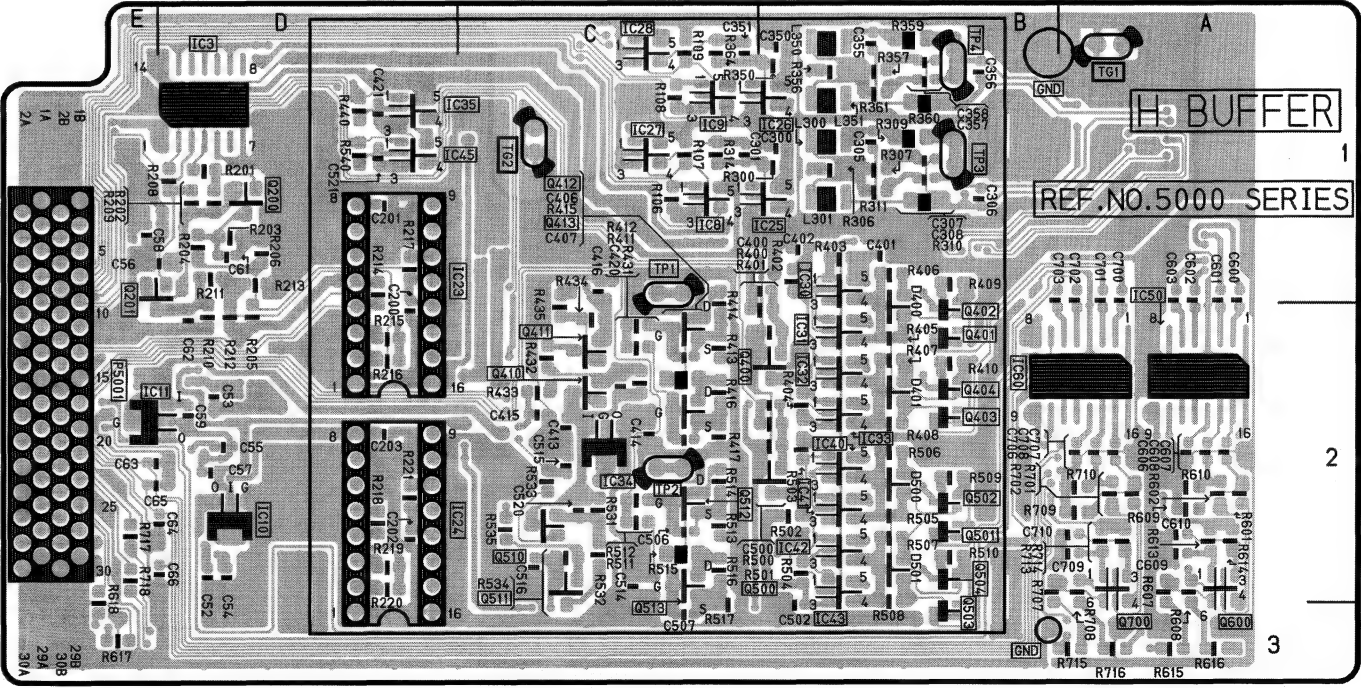


FOIL SIDE

REF	LOC	REF	LOC
TG1	A1	IC27	C1
IC50	A2	IC28	C1
IC90	A2	Q412	C2
Q600	A2	Q413	C2
Q700	A2	Q411	C2
TP3	B1	Q410	C2
TP4	B1	IC34	C2
IC25	B1	TP2	C2
IC26	B1	Q512	C2
IC30	B1	Q513	C2
Q401	B2	Q510	C2
Q402	B2	Q511	C2
Q403	B2	IC35	D1
Q404	B2	IC45	D1
Q501	B2	IC23	D1
Q502	B2	IC3	D1
Q504	B2	Q200	D1
IC31	B2	IC24	D2
IC32	B2	IC10	D2
IC33	B2	Q201	E1
IC40	B2	IC11	E2
IC41	B2	P5001	E2
IC42	B2		
IC43	B2		
Q400	B2		
Q500	B2		
IC9	C1		
IC8	C1		
TP1	C1		
TG2	C1		



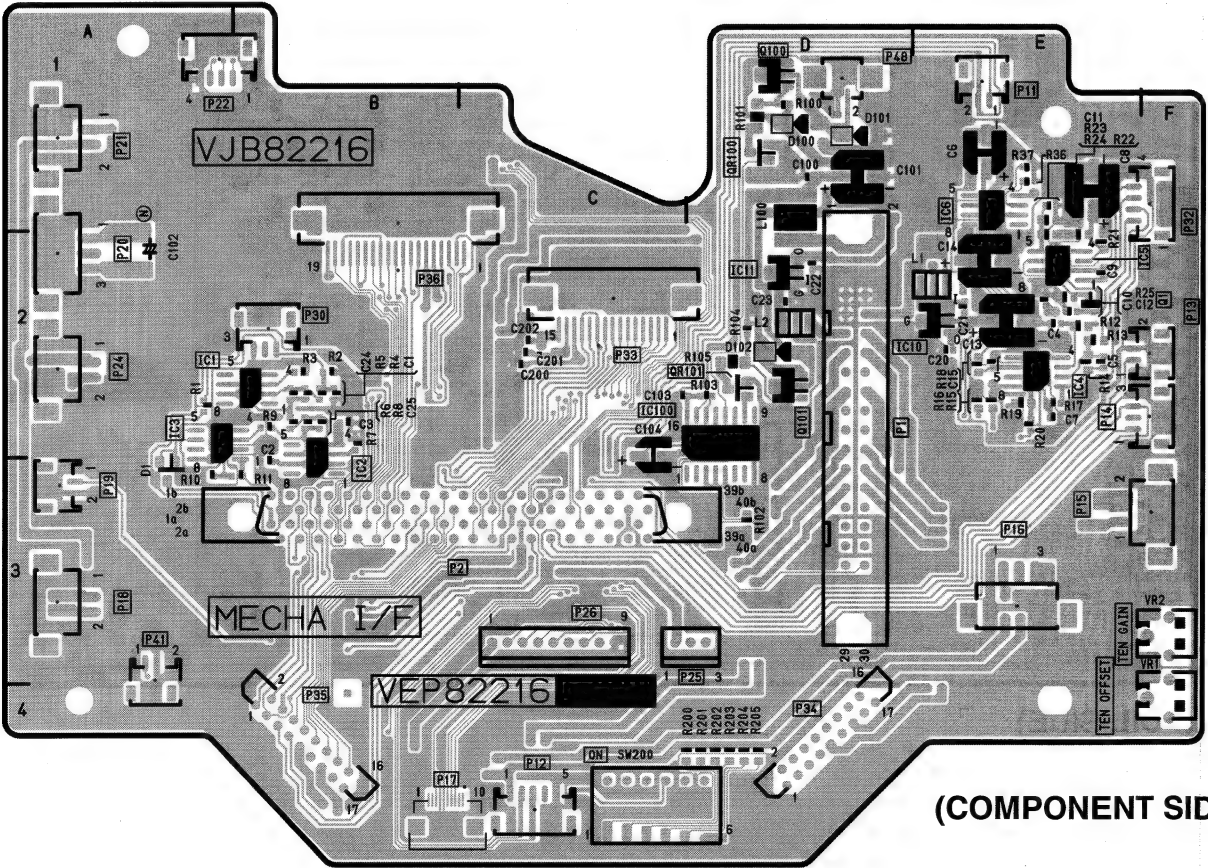
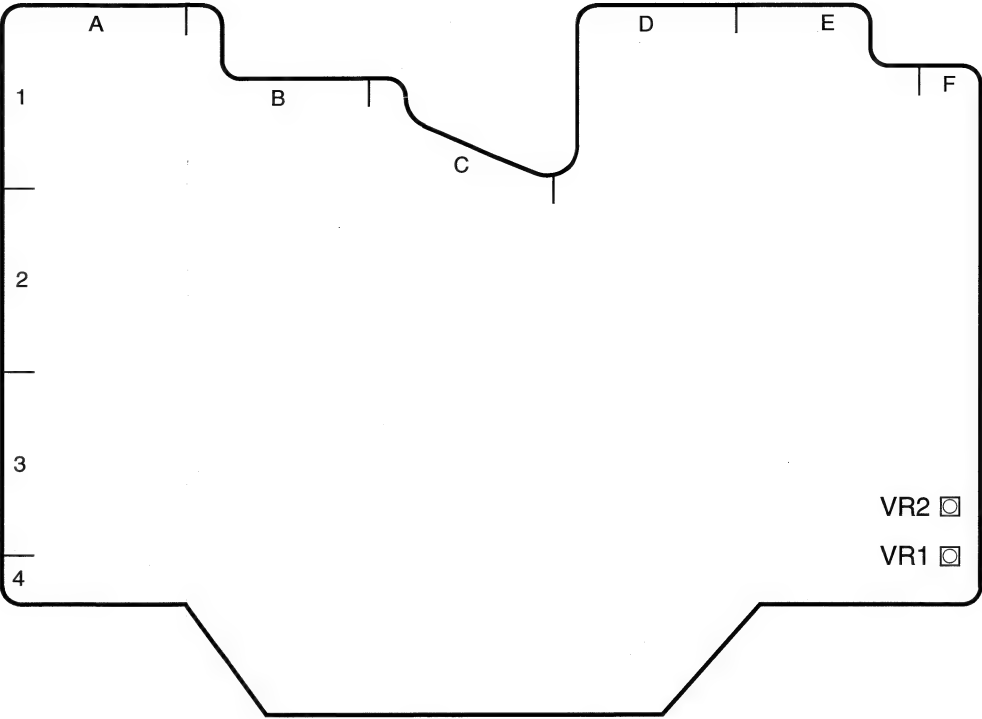
(COMPONENT SIDE)



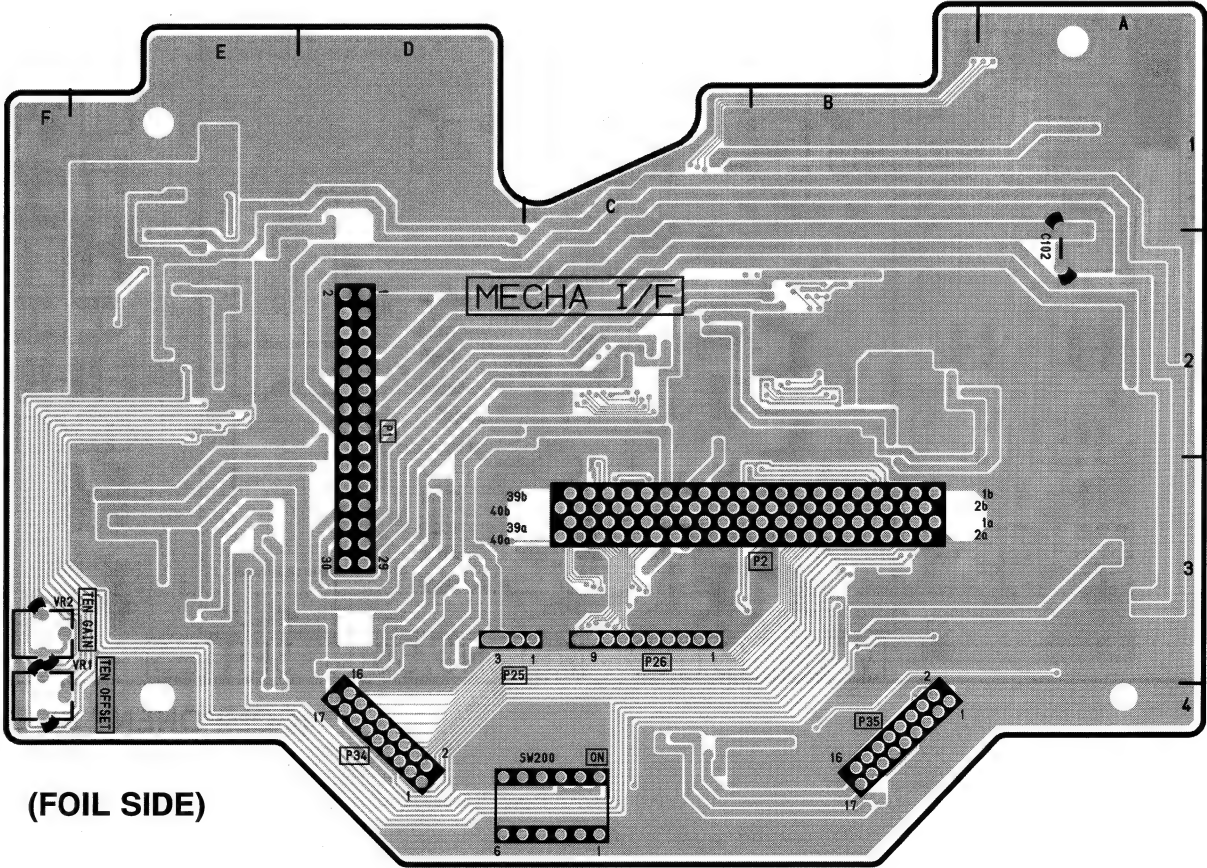
(FOIL SIDE)

MECHA IF P.C.BOARD (VEP82216A)

COMPONENT SIDE			
REF	LOC	REF	LOC
IC1	B2	P33	C2
IC2	B3	P36	B1
IC3	A2	P41	A3
IC4	E2	P48	D1
IC5	E2	Q1	E2
IC6	E1	Q100	D1
IC10	E2	Q101	D2
IC11	D2	QR100	D1
IC100	D2	QR101	D2
P1	D2	SW200	C4
P2	C3	VR1	F4
P11	E1	VR2	F3
P12	C4		
P13	F2		
P14	F2		
P15	F3		
P16	E3		
P17	B4		
P18	A3		
P19	A3		
P20	A2		
P21	A1		
P22	A1		
P24	A2		
P25	C3		
P26	C3		
P30	B2		
P32	F1		



(COMPONENT SIDE)

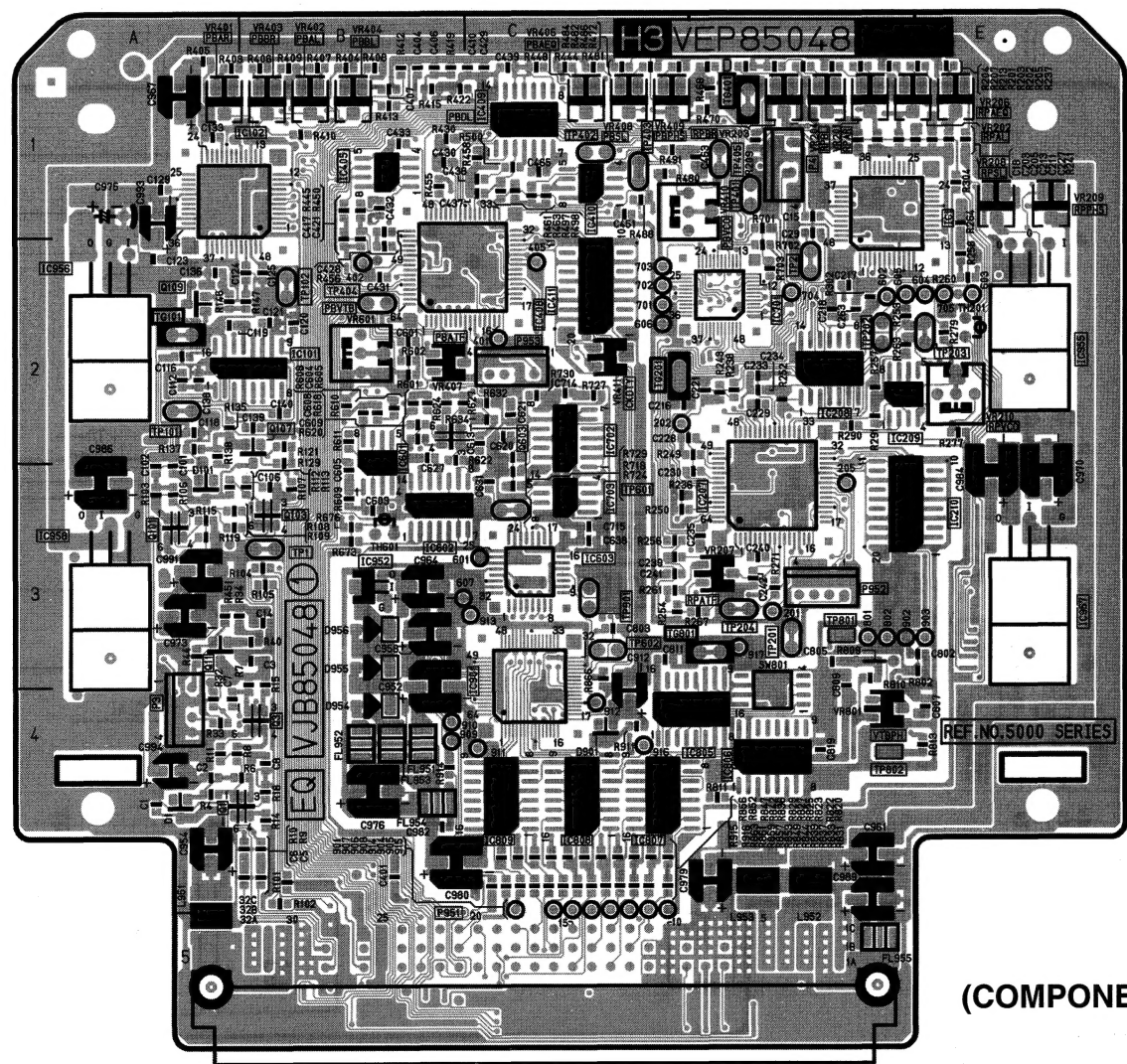


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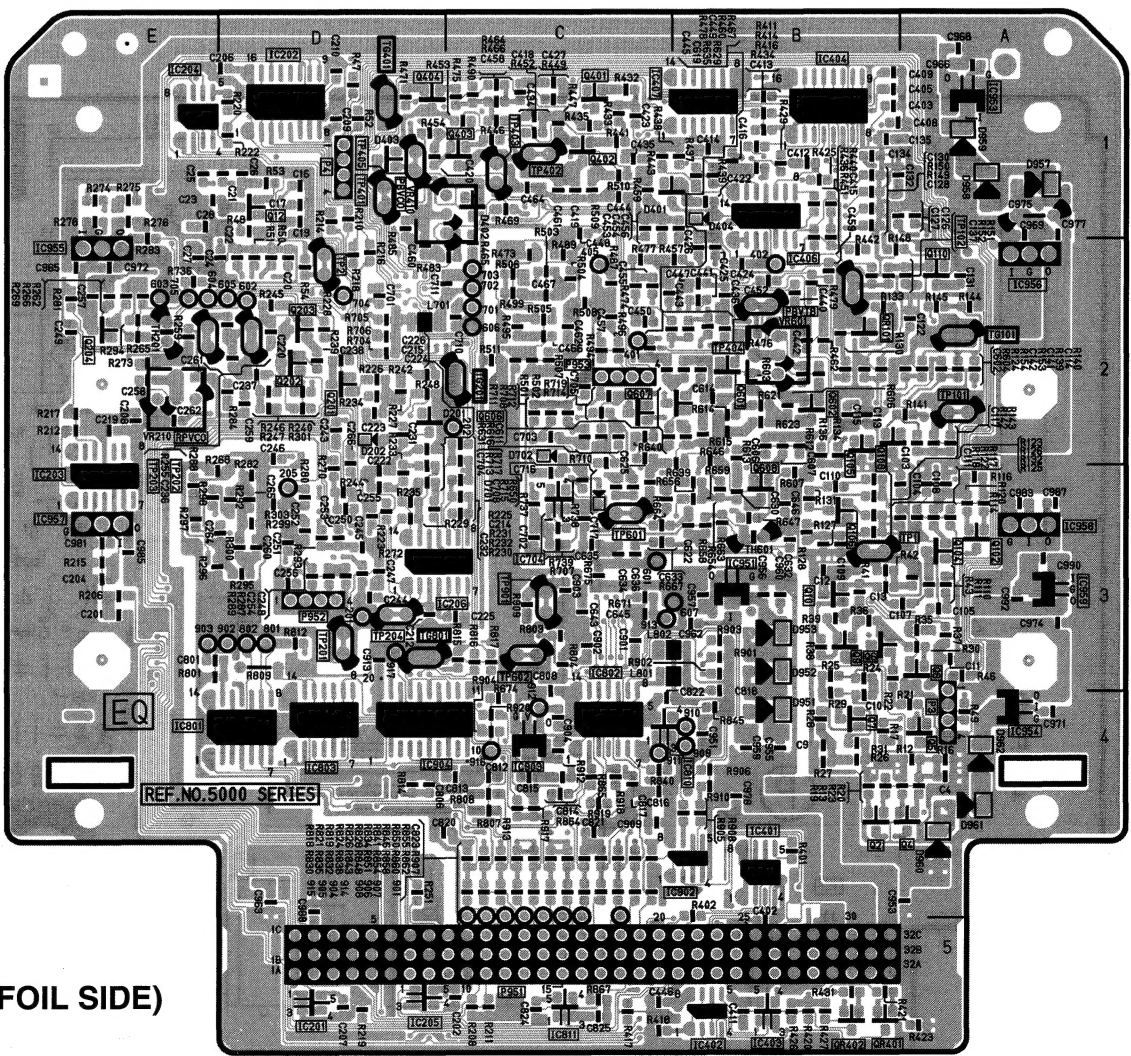
H3: EQ P.C. BOARD (VEP85048A)

COMPONENT SIDE			
REF	LOC	REF	LOC
IC5955	E2	TP5405	D1
IC5956	A2	TP5601	C3
IC5957	E3	TP5602	C3
IC5958	A3	TP5901	C3
P5003	A3	VR5210	E2
P5004	D1	VR5410	D1
P5951	C5	VR5601	B2
P5952	D3		
P5953	C2		
TG5101	A2		
TG5201	C2		
TG5401	D1		
TG5801	D3		
TP5001	B3		
TP5002	D2		
TP5101	A2		
TP5102	B2		
TP5201	D3		
TP5202	D2		
TP5203	E2		
TP5204	D3		
TP5401	D1		
TP5402	C1		
TP5403	C1		
TP5404	B2		

FOIL SIDE									
REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC
IC5001	B1	IC5602	D3	Q5001	D4	Q5204	E2	VR5401	E1
IC5101	D2	IC5603	C3	Q5002	B4	Q5401	C1	VR5402	D1
IC5102	D1	IC5701	B2	Q5003	D4	Q5402	C1	VR5403	D1
IC5201	D5	IC5702	C2	Q5004	A4	Q5403	C1	VR5404	D1
IC5202	D1	IC5703	C3	Q5005	A4	Q5404	D1	VR5406	C1
IC5203	E3	IC5704	C3	Q5006	B3	Q5601	B2	VR5407	D2
IC5204	E1	IC5801	D4	Q5007	B4	Q5602	B2	VR5408	C1
IC5205	D5	IC5802	C4	Q5008	A3	Q5603	C2	VR5409	C1
IC5206	D3	IC5803	D4	Q5009	B3	Q5606	B2	VR5411	C2
IC5207	B3	IC5805	B4	Q5010	B3	Q5607	C2	VR5801	B4
IC5208	B2	IC5806	B4	Q5011	E3	Q5608	B3		
IC5209	A2	IC5807	C4	Q5012	D1	QR5101	B2		
IC5210	A3	IC5808	C4	Q5101	E3	QR5401	B5		
IC5401	B4	IC5809	C4	Q5102	A3	QR5402	B5		
IC5402	B5	IC5810	C4	Q5103	D3	SW5801	B4		
IC5403	B5	IC5811	C5	Q5104	A3	TP5801	B3		
IC5404	B1	IC5901	C3	Q5105	B2	TP5802	B4		
IC5405	D1	IC5902	B4	Q5106	B3	VR5201	B1		
IC5406	B1	IC5903	C4	Q5107	D2	VR5202	A1		
IC5407	B1	IC5904	D4	Q5108	B2	VR5203	B1		
IC5408	C2	IC5951	B3	Q5109	E2	VR5204	B1		
IC5409	C1	IC5952	D3	Q5110	A2	VR5206	A1		
IC5410	C1	IC5953	A1	Q5201	D2	VR5207	B3		
IC5411	C2	IC5954	A4	Q5202	D2	VR5208	A1		
IC5601	D3	IC5959	A3	Q5203	D2	VR5209	A1		



(COMPONENT SIDE)



(FOIL SIDE)

POWER 1 P.C. BOARD (VEP81074A: NTSC)

POWER 1 (COMPONENT SIDE)			
Transistors		Connector	
Q1002	C-4	P1001	A-3
Q1003	B-4	P1002	A-1
Q1004	B-4	P1003	A-2
Q1005	B-4	P1004	C-2
Integrated Circuit		P1005	C-3
IC1001	C-4		
IC1002	B-4		
IC1003	B-3		


ADDRESS INFORMATION

POWER 1 (FOIL SIDE)			
Transistors		Connector	
Q1002	C-2	P1001	A-2
Q1003	B-1	P1002	A-4
Q1004	B-1	P1003	A-3
Q1005	B-1	P1004	C-3
Integrated Circuit		P1005	C-1
IC1001	C-1		
IC1002	B-1		
IC1003	B-2		


ADDRESS INFORMATION

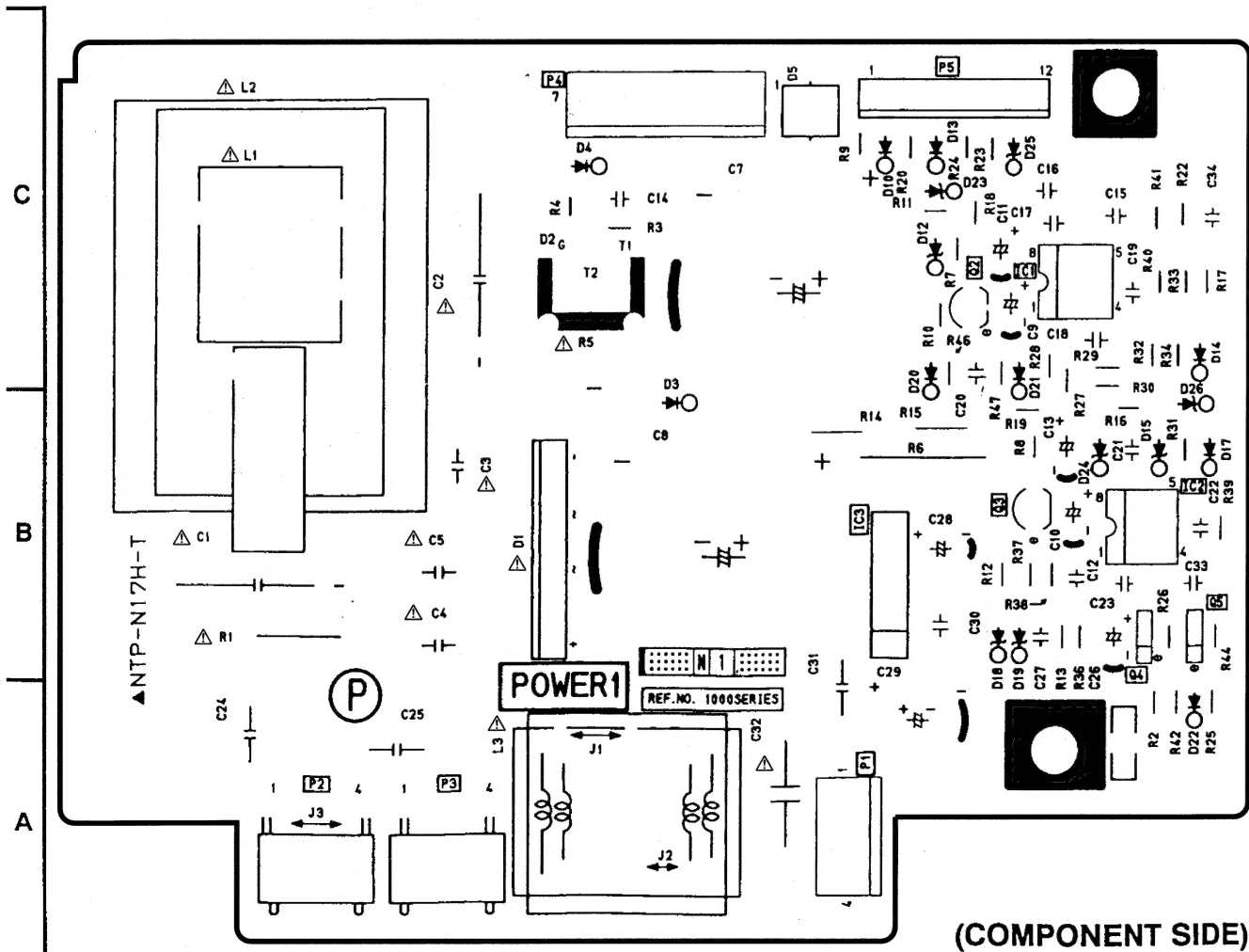
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WHEN REPLACING ANY OF THESE COMPONENTS, USE ONLY THE SAME TYPE.

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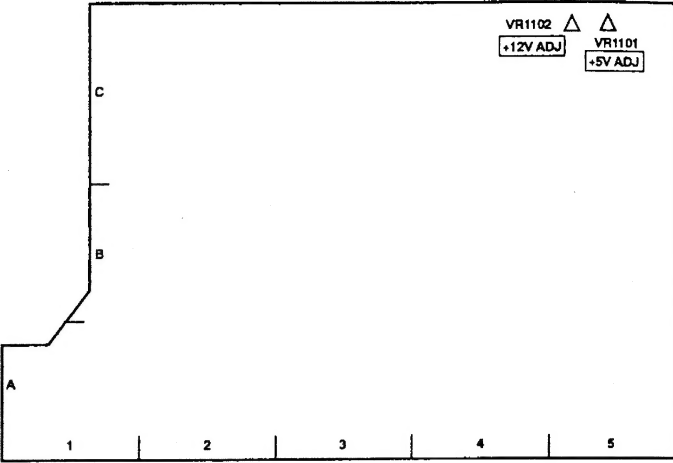
POWER 2 P.C. BOARD (VEP81075A: NTSC)

POWER 2 (FOIL SIDE)			
Transistors		Adjustment	
Q1011	C-2	VR1001	C-1
Q1012	C-4	VR1002	C-1
Q1013	C-5	Connector	
Q1014	C-1		
Q1015	C-1	P1011	A-2
Q1016	C-4	P1012	A-2
Q1017	B-5	P1013	A-3
Q1018	B-5	P1014	A-5
Q1019	B-2	P1015	C-2
		P1016	C-4
Integrated Circuit			
IC1011	B-1		
IC1012	B-1		

ADDRESS INFORMATION

POWER 2 (COMPONENT SIDE)			
Transistors		Adjustment	
Q1011	C-3	VR1001	C-5
Q1012	C-2	VR1002	C-5
Q1013	C-1	Connector	
Q1014	C-5		
Q1015	C-4	P1011	A-4
Q1016	C-2	P1012	A-3
Q1017	B-1	P1013	A-3
Q1018	B-1	P1014	A-1
Q1019	B-4	P1015	C-3
		P1016	C-2
Integrated Circuit			
IC1011	B-5		
IC1012	B-5		

ADDRESS INFORMATION



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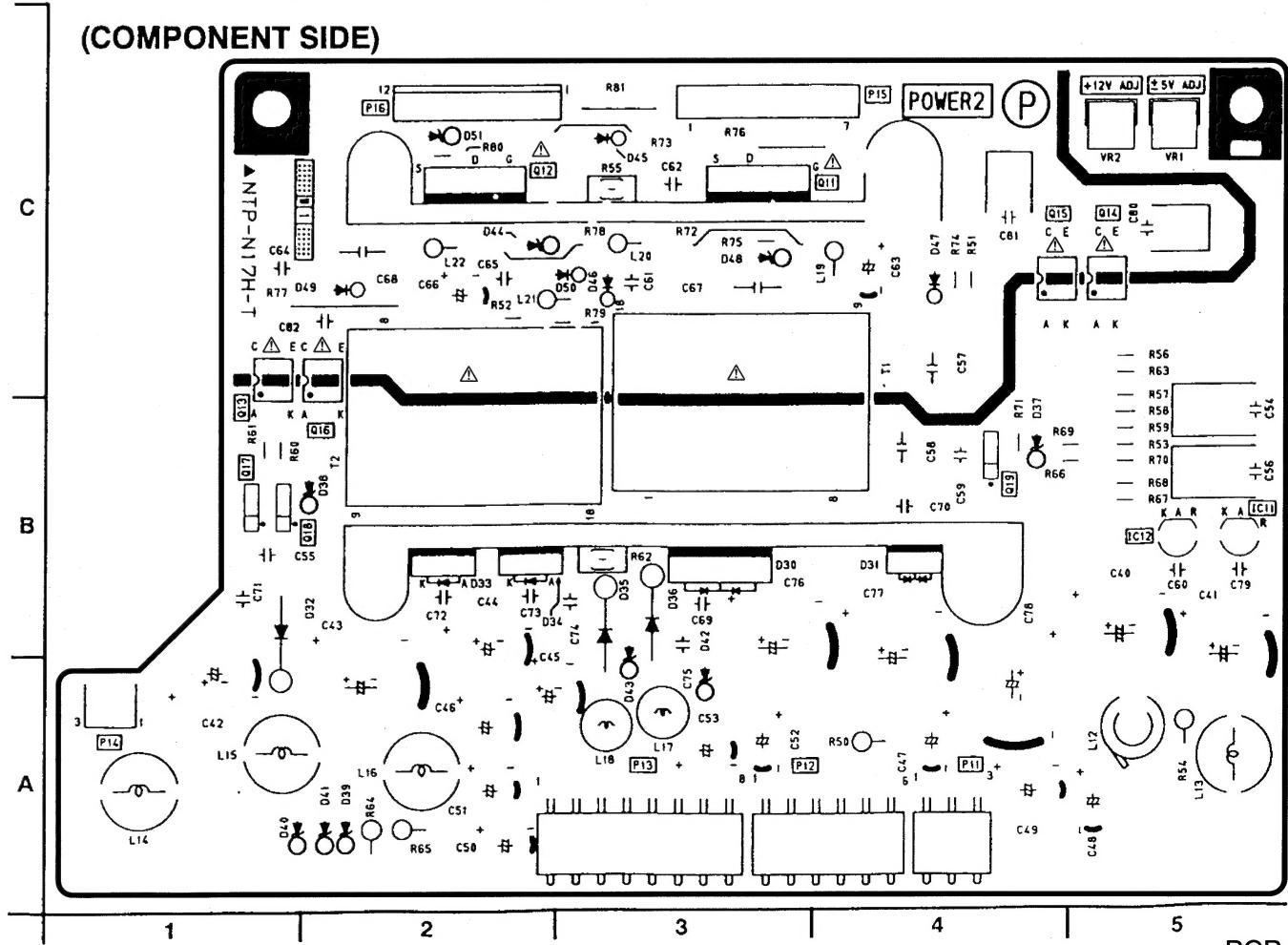
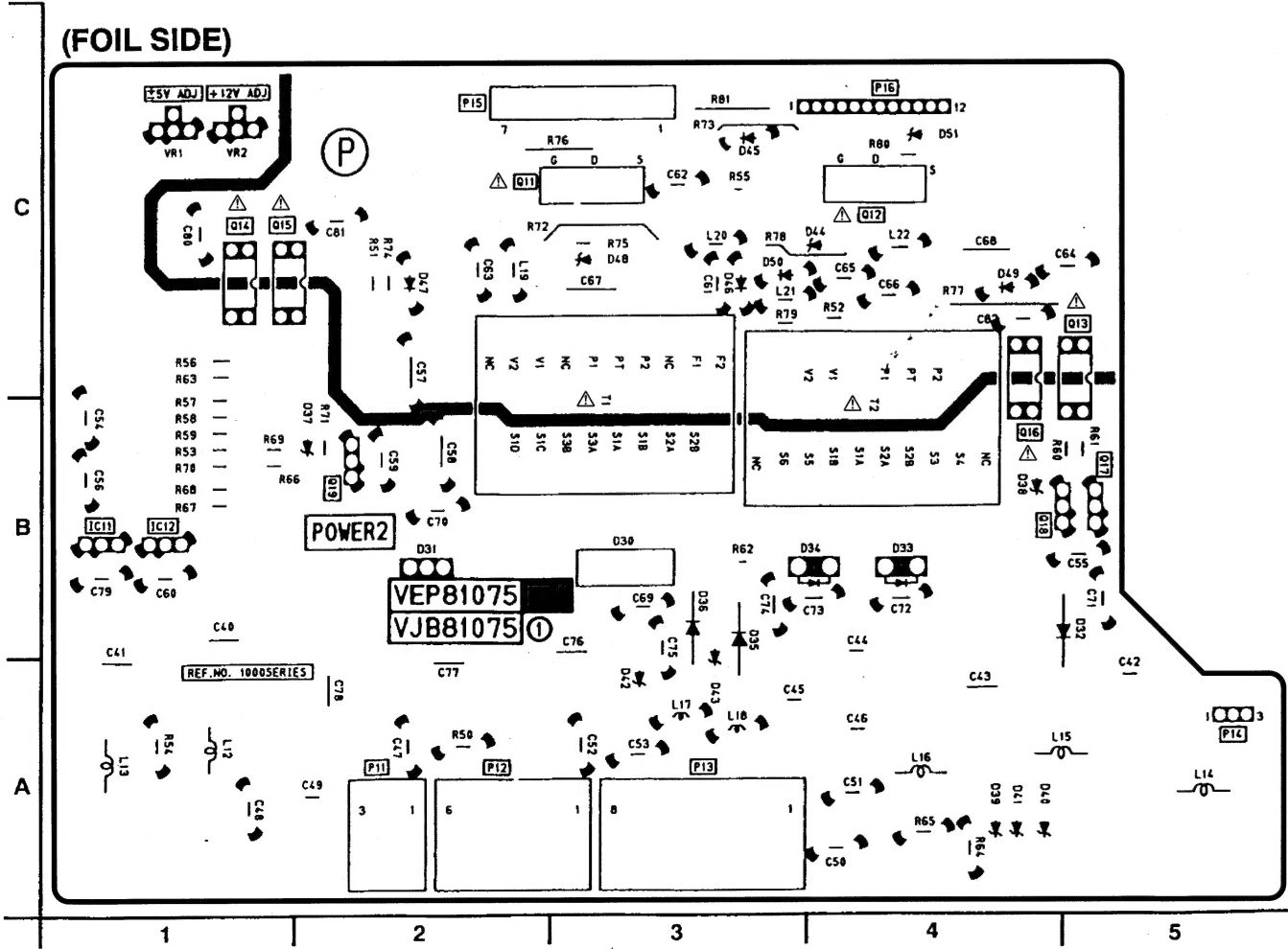
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JAPAN ONLY

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CAUTION


THE MARK INDICATES THE PRIMARY CIRCUIT TO DISTINGUISH THE PRIMARY FROM THE SECONDARY CIRCUIT.
PAY ATTENTION NOT TO RECEIVE AN ELECTRIC SHOCK DURING REPAIR AND SERVICE OF THE PRODUCTS.

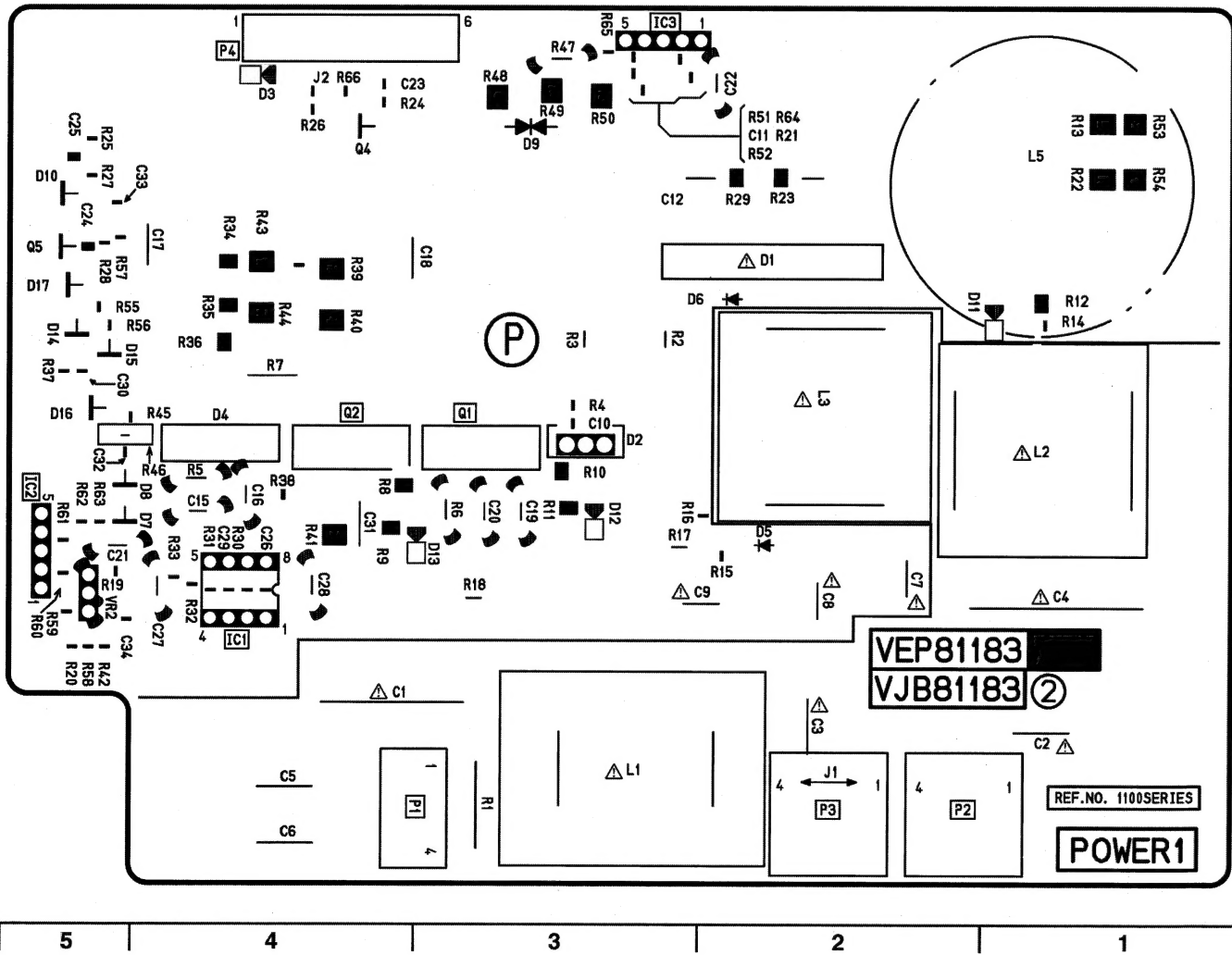


POWER 1 P.C. BOARD (VEP81183A: PAL)

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IMPORTANT SAFETY NOTICE:
COMPONENTS IDENTIFIED WITH THE MARK  HAVE THE SPECIAL CHARACTERISTICS FOR SAFETY. WHEN REPLACING ANY OF THESE COMPONENTS, USE ONLY THE SAME TYPE.




(FOIL SIDE)

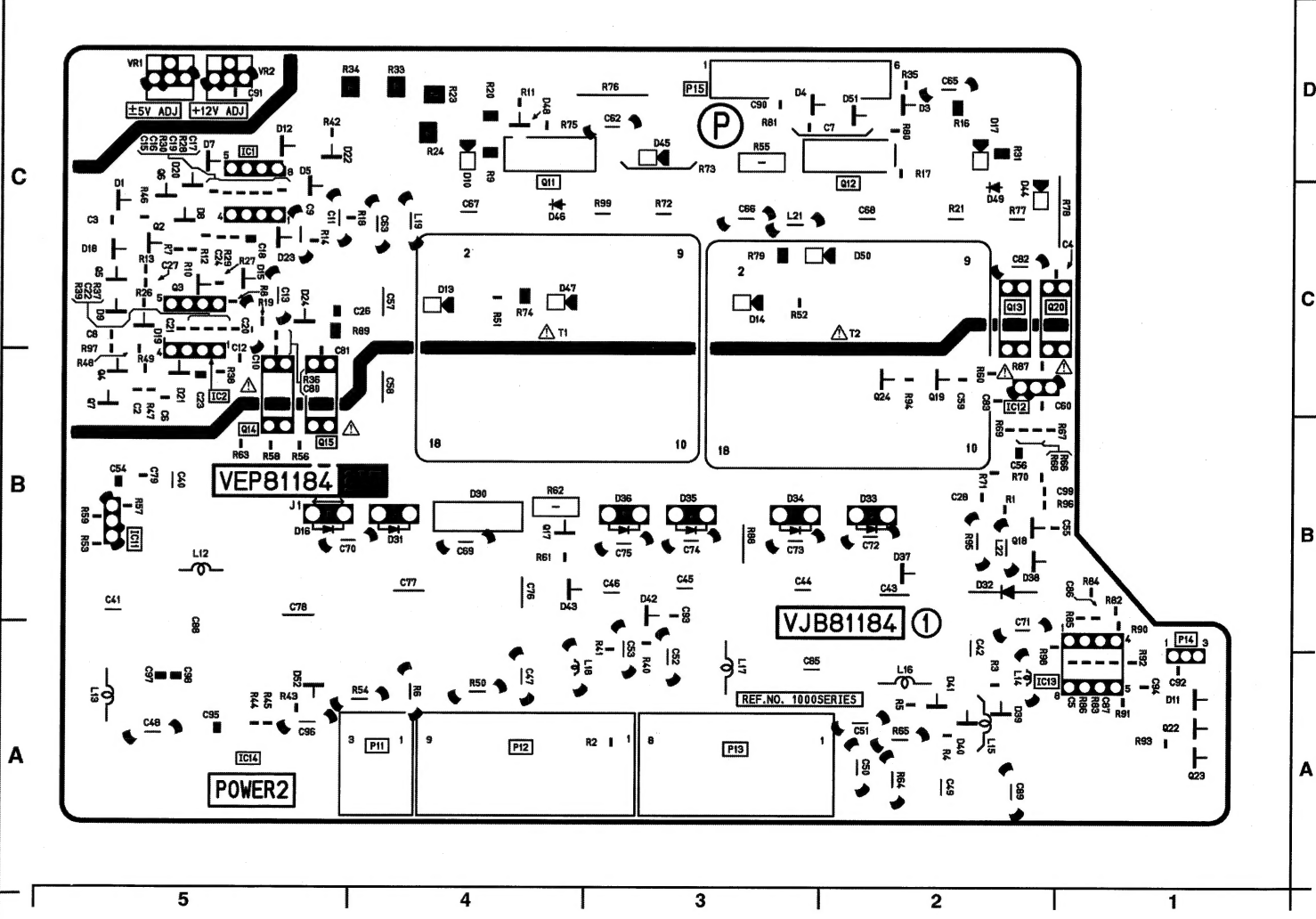
POWER 2 P.C. BOARD (VEP81184B: PAL)

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CAUTION

THE  MARK INDICATES THE PRIMARY CIRCUIT TO DISTINGUISH THE PRIMARY FROM THE SECONDARY CIRCUIT. PAY ATTENTION NOT TO RECEIVE AN ELECTRIC SHOCK DURING REPAIR AND SERVICE OF THE PRODUCTS.



(FOIL SIDE)